flexicare®

TOTAL QUALITY - TOTAL CARE

AIRWAY MANAGEMENT

ANAESTHESIA

ANAESTHESIA ACCESSORIES

CRITICAL CARE

NEONATAL BREATHING SYSTEMS

BREATHING FILTERS

OXYGEN & AEROSOL THERAPY

SUCTION

RESUSCITATION

CONTINENCE CARE

COLOSTOMY

ENEMA TIPS

# Product Catalogue

Issue 7

# With over 50 years of experience in design, development and manufacturing, Flexicare has developed a world class reputation.

**International Distributors** Flexicare now distributes to over 78 countries worldwide through a network of distributors and it's own subsidiaries. Flexicare has offices across Europe, the Middle East, Far East and the USA which are able to respond to customers' needs, providing a fast and efficient service.

**Customer Care** Our Customer Care Department is available to respond to your enquiries and provide online information regarding our product range and to discuss your order requirements. Our experienced sales team can offer advice and educational support within the rapidly changing hospital environment.

**Training** We are dedicated to supporting Hospitals in terms of educational support and training of all medical staff with understanding of the principles underlying our product range. We work closely with a number of University Teaching Hospitals and Clinicians to develop full training packages.

**Accreditation** Flexicare is an ISO 13485 Registered Manufacturer of sterile medical devices and surgical products with CE mark accreditation.

FDA Registration No: 8021995

**Design and Manufacture** With our own in house Research and Design team, we are able to work closely with our technical engineers to ensure that new products are manufactured and adhere to the original specifications, as well as ensuring that the post testing of these items meet the highest level of the standards with which we set ourselves.

Dedicated to
## supporting hospitals
providing comprehensive training

Providing you with
## advice and support
within the hospital environment

## AIRWAY MANAGEMENT
- LarySeal Mask Airways
- Guedel Airways
- ET Tubes
- Single Patient Use Laryngoscopes
- Reusable Laryngoscopes
- Nasopharyngeal Airways

05

## ANAESTHESIA
- Adult Anaesthetic Circuits
- Paediatric Anaesthetic Circuits
- Adult Argentic Anaesthetic Circuits

37

## ANAESTHESIA ACCESSORIES
- Catheter Mounts
- Soda Lime Absorbents
- Patient Connections
- Breathing System Components
- Anaesthetic Face Masks
- Accessories

53

## CRITICAL CARE
- ITU Ventilator Systems
- Humidified Ventilator Systems
- Non Invasive Ventilation Breathing Systems

65

## NEONATAL BREATHING SYSTEMS
- Cold Humidification Systems
- Dual Heated Wire Systems
- Universal Heated Wire Systems

79

## BREATHING FILTERS
- LuerSafe
- ThermoTrach Heat/Moisture Exchanger
- HepaShield
- ThermoShield HMEF's
- VentiShield B/V Filters
- Pulmonary Function Test Filter

83

## OXYGEN & AEROSOL THERAPY
- Fixed Concentration
- Variable Concentration
- Aerosol Therapy
- Post Operative Therapy

93

## SUCTION
- Sterile Suction Tubing
- Suction Yankauers
- Suction Catheters

113

## RESUSCITATION
- Single Patient Resuscitators
- Pocket Resuscitation Masks
- Reusable Silicone Resuscitators

117

## CONTINENCE CARE
- FlexiCath, Silicone Foley Catheters
- Accessories
- Drainage Bags
- Urimeters

123

## COLOSTOMY
- Coloset Clear
- Flanges
- Coloset Beige

137

## ENEMA TIPS
- Barium Enema Tips
- Enema Accessories

141

# Flexicare distribute to over 78 countries worldwide through a network of distributors and it's own subsidiaries.

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# AIRWAY MANAGEMENT

## Laryngeal Mask Airways, Laryngoscopes, ET Tubes & Airways

A comprehensive range of airway management devices including, Laryngeal Mask Airways, Laryngoscopes, ET Tubes, Nasopharyngeal Airways and Guedel Airways.

### Laryngeal Mask Airways


Introduction ____ 6
LarySeal Multiple - silicone reusable ____ 8
LarySeal Blue - silicone single use ____ 9
LarySeal Clear - PVC single use ____ 10
LarySeal MRI - MRI compatible single use ____ 11
LarySeal Flexi - flexible single use ____ 12
LarySeal Plus - single patient use pack ____ 13

### Laryngoscopes


Introduction ____ 14
Reusable Fibre Optic Blades ____ 15
Fibre Optic Speciality Blades ____ 17
BriteBlade Pro - Single Patient Use ____ 18
BriteBlade Evo - Single Patient Use ____ 19
Reusable Fibre Optic Handles & Box Sets ____ 20
Britepro Max - LED Handle ____ 21
BritePro Handle - Single Patient Use ____ 22
Britepro LightSource ____ 23
Standard Blades ____ 24
Standard Speciality Blades ____ 25
Disposable Metal Blades & Handles ____ 26
Standard Handles & Box Sets ____ 27
Laryngoscope Packs ____ 28
Magill Forceps ____ 28


### ET Tubes


Introduction ____ 29
Plain Uncuffed Tubes ____ 30
VentiSeal Cuff Tubes ____ 31
Standard Cuff Tubes ____ 32


### Airways


NasoSafe ____ 33
NasoClear ____ 34
Guedel Airways ____ 35

# LarySeal - Laryngeal Mask Airways

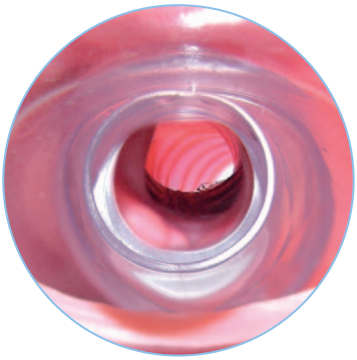
The LarySeal range of Laryngeal Mask Airways have the following common benefits, which are incorporated into the Clear, Blue, Multiple, MRI and Flexi range of Laryngeal Mask Airways.

LarySeal™

## Reduced risk of blockage

The deep design of the patient port reduces the risk of blockages by soft tissues. The open patient port allows for unrestricted use of an endoscope.

## Full glottis view



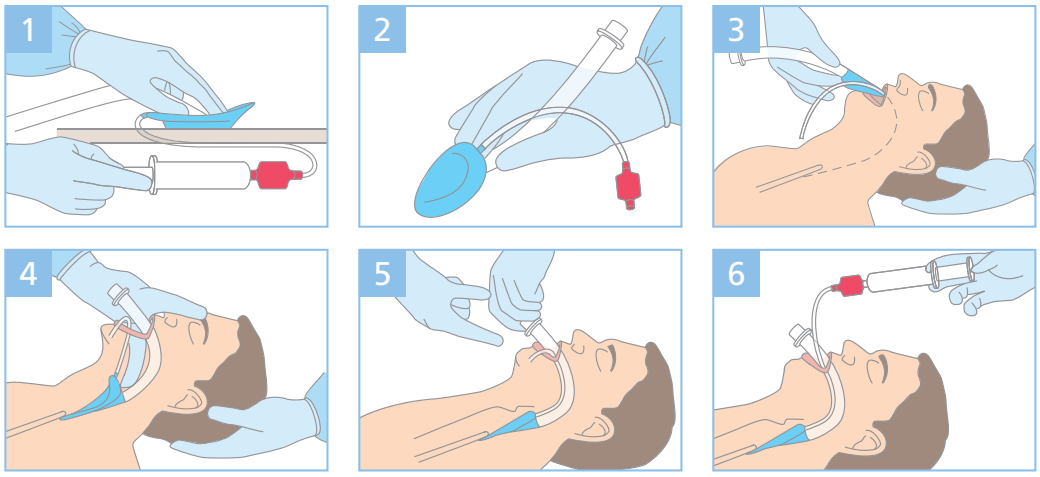
The supraglottic airway device allows for a clear view of the glottis with the use of an endoscope.

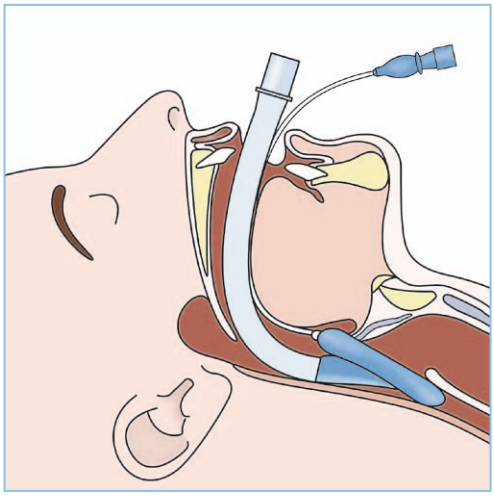
## Printed info on the main tube

Guidance for appropriate air volume and size is printed on the main tube, allowing for quick and easy reference.

## Clearly labelled packaging

Instructions for use are clearly shown on the packaging in both text and diagrammatic form.



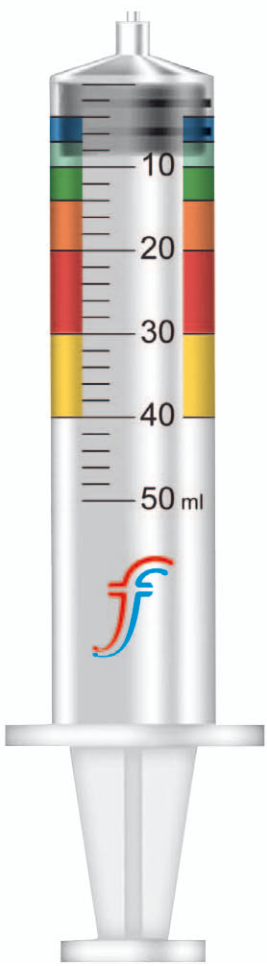



## LarySeal in position

The diagram shows the LarySeal in position and demonstrates how the soft material of the cuff forms itself to the oropharyngeal area.

## Colour coded LarySeal Cuff Inflator

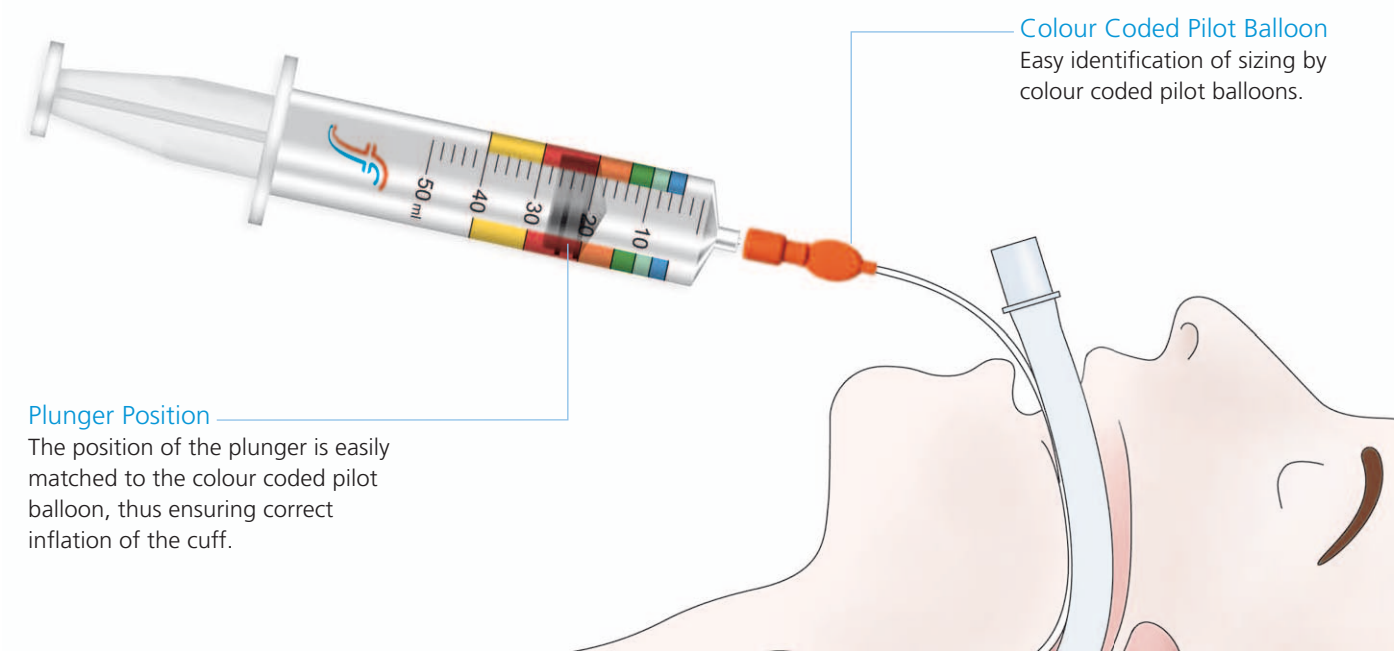
The LarySeal Cuff Inflator has clearly marked increments, each one specifically colour coded to match the size colour coding of the LarySeal pilot balloon. Thus enabling easier and quicker identification of the correct measure for inflating the cuff of the LarySeal.



# LarySeal - Colour Coding

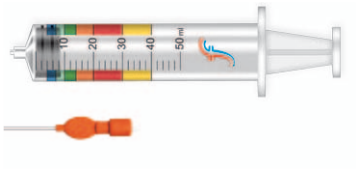
The LarySeal range has a colour coded pilot balloon which corresponds to the size of the laryngeal Mask Airway, providing a clear visual indication of the size, therefore facilitating quicker selection.

LarySeal™


Colour Coded Pilot Balloon
Easy identification of sizing by colour coded pilot balloons.
Plunger Position
The position of the plunger is easily matched to the colour coded pilot balloon, thus ensuring correct inflation of the cuff.

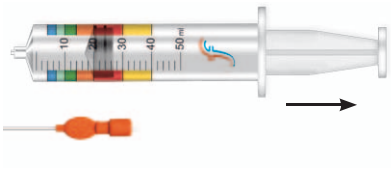
The LarySeal Cuff Inflator has been specifically designed to only be used with the LarySeal range of Laryngeal Mask Airways, indicating the maximum amount of air by individual colour coded sizes.

### Step 1:



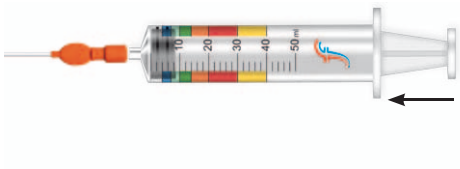
Identify the colour coded section that matches the colour of the LarySeal pilot balloon.

### Step 2:



Extract the plunger to the bottom mark of the appropriate colour coded increment. Ensure the LarySeal cuff is deflated.

### Step 3:



Connect the inflator to the LarySeal pilot balloon and depress the plunger to inflate the cuff to the correct pressure.

| | | |
|---|---|---|
| 038-94-001 | LarySeal Colour Coded Cuff Inflator | 10 |

## THE LARYSEAL PILOT BALLOON COLOUR CODING SYSTEM

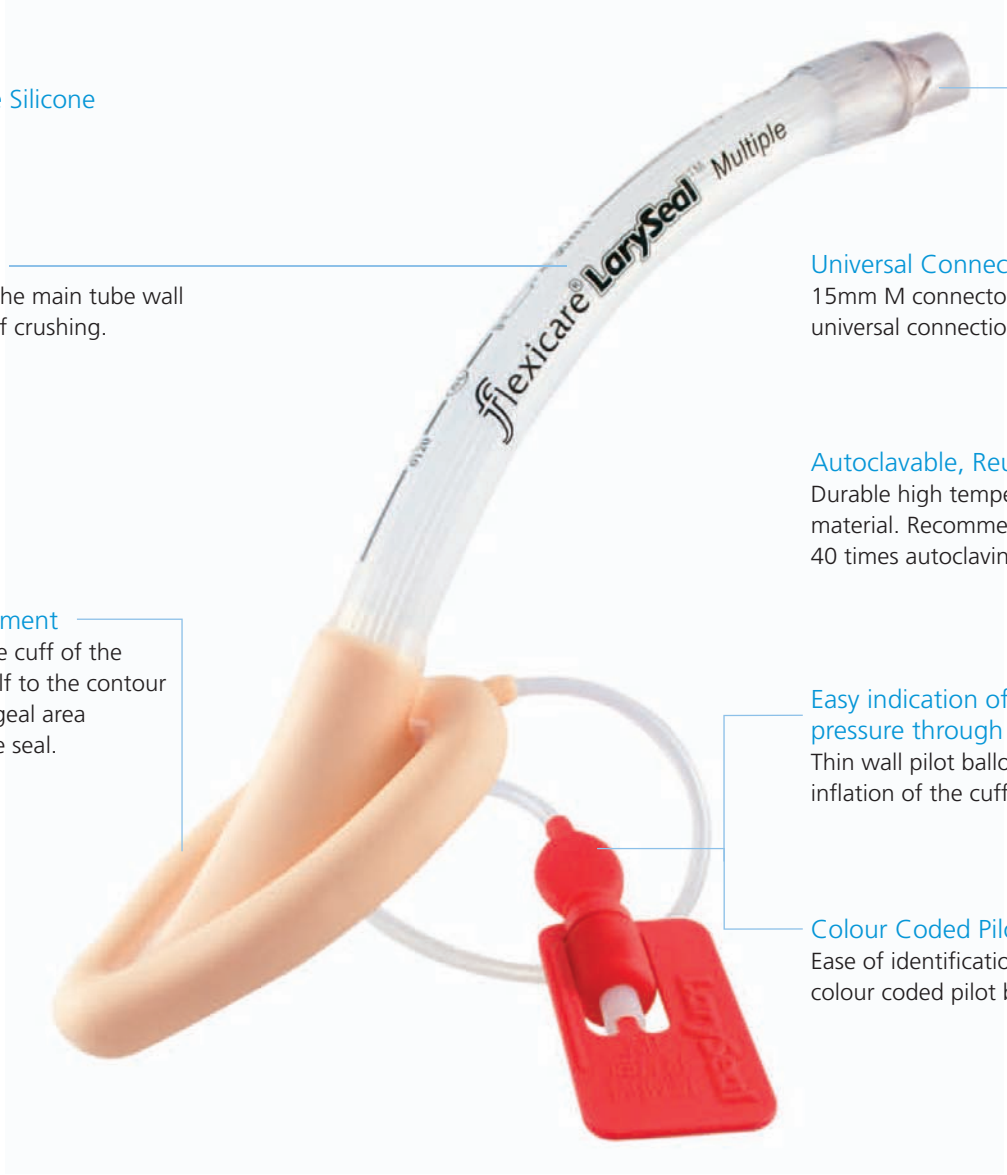
| | | | |
|---|---|---|---|
| White Pilot Balloon - | 1 | Air <4ml/60cm $H_2O$ | Size 1, <5kg |
| Blue Pilot Balloon - | 1.5 | Air <7ml/60cm $H_2O$ | Size 1.5, 5kg - 10kg |
| Light Green Pilot Balloon - | 2 | Air <10ml/60cm $H_2O$ | Size 2, 10kg - 20kg |
| Green Pilot Balloon - | 2.5 | Air <14ml/60cm $H_2O$ | Size 2.5, 20kg - 30kg |
| Orange Pilot Balloon - | 3 | Air <20ml/60cm $H_2O$ | Size 3, 30kg - 50kg |
| Red Pilot Balloon - | 4 | Air <30ml/60cm $H_2O$ | Size 4, 50kg - 70kg |
| Yellow Pilot Balloon - | 5 | Air <40ml/60cm $H_2O$ | Size 5, 70kg - 100kg |

Our silicone reusable laryngeal mask airways are designed to be sterilized and used up to a recommended 40 times.
The LarySeal Multiple cuff adapts to the contour of the oropharyngeal area to provide a secure seal.

# LarySeal™ Multiple

- Medical Grade Silicone
- Autoclavable

**Crush Resistant**
The thickness of the main tube wall reduces the risk of crushing.




**Universal Connection**
15mm M connector provides a universal connection.

**Autoclavable, Reusable**
Durable high temperature resistant material. Recommended for up to 40 times autoclaving.

**Secure Seal for Airway Management**
Silicone allows the cuff of the mask to form itself to the contour of the oropharyngeal area providing a secure seal.

**Easy indication of the cuff pressure through pilot balloon**
Thin wall pilot balloon indicates the inflation of the cuff.

**Colour Coded Pilot Balloon**
Ease of identification of sizing by colour coded pilot balloons.

| | | | | |
|---|---|---|---|---|
| 038-94-110 | LarySeal Multiple Size 1 | 1 | <5kg | 10 |
| 038-94-115 | LarySeal Multiple Size 1.5 | 1.5 | 5kg - 10kg | 10 |
| 038-94-120 | LarySeal Multiple Size 2 | 2 | 10kg - 20kg | 10 |
| 038-94-125 | LarySeal Multiple Size 2.5 | 2.5 | 20kg - 30kg | 10 |
| 038-94-130 | LarySeal Multiple Size 3 | 3 | 30kg - 50kg | 10 |
| 038-94-140 | LarySeal Multiple Size 4 | 4 | 50kg - 70kg | 10 |
| 038-94-150 | LarySeal Multiple Size 5 | 5 | 70kg - 100kg | 10 |

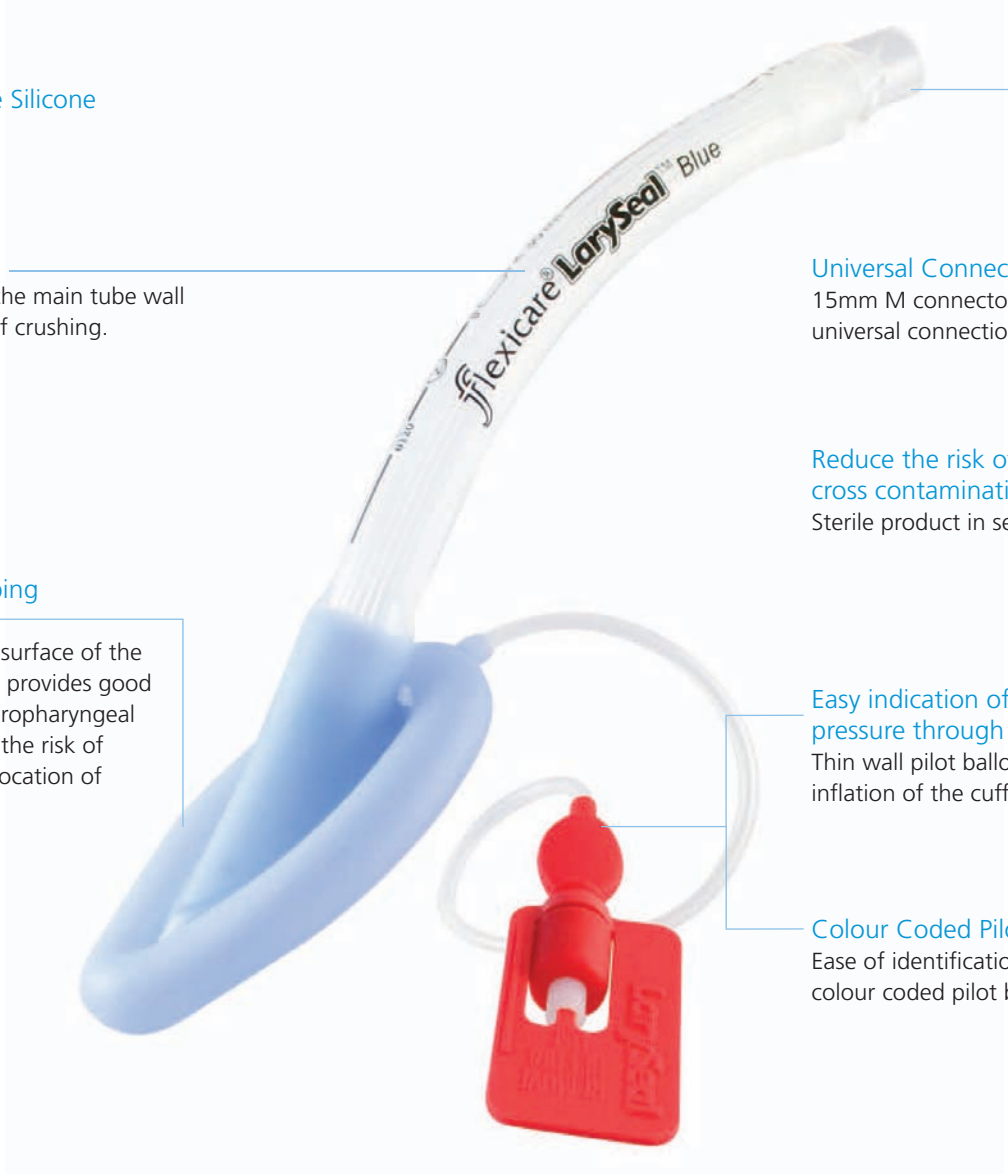
# LarySeal Blue

The first silicone single patient use laryngeal mask airway introduced to provide the benefits of the well accepted reusable LarySeal with the benefits of single use, protecting against cross contamination.

## LarySeal™ Blue

- Medical Grade Silicone
- Single Use
- Cost Effective

### Crush Resistant
The thickness of the main tube wall reduces the risk of crushing.




### Universal Connection
15mm M connector provides a universal connection.

### Reduce the risk of cross contamination
Sterile product in secure packaging.

### Less risk of slipping or dislocation
The silicone matt surface of the LarySeal Blue cuff provides good adhesion to the oropharyngeal area and reduces the risk of movement or dislocation of the cuff.

### Easy indication of the cuff pressure through pilot balloon
Thin wall pilot balloon indicates the inflation of the cuff.

### Colour Coded Pilot Balloon
Ease of identification of sizing by colour coded pilot balloons.

| | | | | |
|---|---|---|---|---|
| 038-94-210 | LarySeal Blue Size 1 | 1 | <5kg | 10 |
| 038-94-215 | LarySeal Blue Size 1.5 | 1.5 | 5kg - 10kg | 10 |
| 038-94-220 | LarySeal Blue Size 2 | 2 | 10kg - 20kg | 10 |
| 038-94-225 | LarySeal Blue Size 2.5 | 2.5 | 20kg - 30kg | 10 |
| 038-94-230 | LarySeal Blue Size 3 | 3 | 30kg - 50kg | 10 |
| 038-94-240 | LarySeal Blue Size 4 | 4 | 50kg - 70kg | 10 |
| 038-94-250 | LarySeal Blue Size 5 | 5 | 70kg - 100kg | 10 |

# LarySeal Clear

LarySeal Clear is a single patient use PVC laryngeal mask airway, engineered using extra soft matt textured materials to replicate as closely as possible that of silicone, providing Anaesthetists the same feel as LarySeal Blue and LarySeal Multiple.

## LarySeal™ Clear

- Medical Grade PVC
- Single Use
- Cost Effective

### Crush Resistant
The thickness of the main tube wall reduces the risk of crushing.

### Universal Connection
15mm M connector provides a universal connection.

### Cost Effective
Eliminates the need for cleaning and re-sterilizing, saving time and cost.

### Less risk of slipping or dislocation
The satin surface finish of the cuff provides a similar texture to silicone, thus providing ease of insertion while providing a secure seal.

### Easy indication of the cuff pressure through pilot balloon
Thin wall pilot balloon indicates the inflation of the cuff.

### Colour Coded Pilot Balloon
Ease of identification of sizing by colour coded pilot balloons.

| | | | | |
|---|---|---|---|---|
| 038-94-310 | LarySeal Clear Size 1 | 1 | <5kg | 10 |
| 038-94-315 | LarySeal Clear Size 1.5 | 1.5 | 5kg - 10kg | 10 |
| 038-94-320 | LarySeal Clear Size 2 | 2 | 10kg - 20kg | 10 |
| 038-94-325 | LarySeal Clear Size 2.5 | 2.5 | 20kg - 30kg | 10 |
| 038-94-330 | LarySeal Clear Size 3 | 3 | 30kg - 50kg | 10 |
| 038-94-340 | LarySeal Clear Size 4 | 4 | 50kg - 70kg | 10 |
| 038-94-350 | LarySeal Clear Size 5 | 5 | 70kg - 100kg | 10 |

# LarySeal MRI

LarySeal MRI provides the same benefits of LarySeal Clear with the added benefit of a complete metal free inflation valve, allowing LarySeal MRI to be used within any MRI suite safely without distorting the images.

LarySeal™ MRI

- Medical Grade PVC
- Single Use
- Cost Effective
- MRI Compatible

### Crush Resistant
The thickness of the main tube wall reduces the risk of crushing.

### Less risk of slipping or dislocation
The satin surface finish of the LarySeal MRI cuff provides a similar texture to silicone, thus providing ease of insertion while providing a secure seal.

### Universal Connection
15mm M connector provides a universal connection.

### Cost Effective
Eliminates cleaning and re-sterilizing, saving time and cost.

### Metal Free Inflation Valve
The metal free construction of the valve allows the LarySeal to be used in MRI.

### Colour Coded Pilot Balloon
Ease of identification of sizing by colour coded pilot balloons.

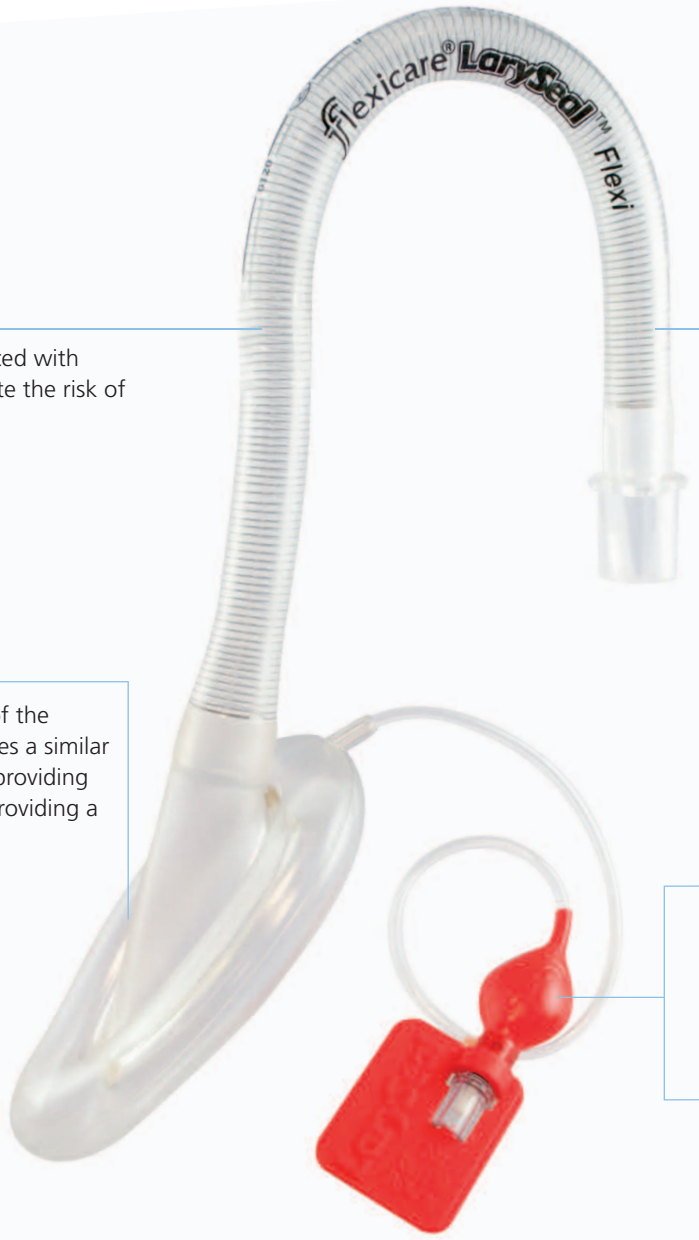
| | | | | |
|---|---|---|---|---|
| 038-94-410 | LarySeal MRI Size 1 | 1 | <5kg | 10 |
| 038-94-415 | LarySeal MRI Size 1.5 | 1.5 | 5kg - 10kg | 10 |
| 038-94-420 | LarySeal MRI Size 2 | 2 | 10kg - 20kg | 10 |
| 038-94-425 | LarySeal MRI Size 2.5 | 2.5 | 20kg - 30kg | 10 |
| 038-94-430 | LarySeal MRI Size 3 | 3 | 30kg - 50kg | 10 |
| 038-94-440 | LarySeal MRI Size 4 | 4 | 50kg - 70kg | 10 |
| 038-94-450 | LarySeal MRI Size 5 | 5 | 70kg - 100kg | 10 |

# LarySeal Flexi

LarySeal Flexi is specially designed for use in ophthalmic, ENT, dental and other head and neck surgeries. The construction of the main tube allows it to be positioned well away from the surgical field, improving surgical access without compromising the seal. The LarySeal Flexi main tube is reinforced to avoid kinking and eliminate the risk of airway tube occlusion.

## LarySeal™ Flexi

- Medical Grade PVC
- Single Use
- Cost Effective
- Flexible Main Tube




### Reinforced
The main tube is reinforced with kink-free wire to eliminate the risk of airway tube occlusion.

### Flexible Main Tube
The flexible main tube allows it to be positioned away from the surgical field, improving surgical access.

### Universal Connection
15mm M connector provides a universal connection.

### Less risk of slipping or dislocation
The satin surface finish of the LarySeal Flexi cuff provides a similar texture to silicone, thus providing ease of insertion while providing a secure seal.

### Easy indication of the cuff pressure through pilot balloon
Thin wall pilot balloon indicates the inflation of the cuff.

### Colour Coded Pilot Balloon
Ease of identification of sizing by colour coded pilot balloons.

| | | | | |
|---|---|---|---|---|
| 038-94-520 | LarySeal Flexi Size 2 | 2 | 10kg - 20kg | 10 |
| 038-94-525 | LarySeal Flexi Size 2.5 | 2.5 | 20kg - 30kg | 10 |
| 038-94-530 | LarySeal Flexi Size 3 | 3 | 30kg - 50kg | 10 |
| 038-94-540 | LarySeal Flexi Size 4 | 4 | 50kg - 70kg | 10 |
| 038-94-550 | LarySeal Flexi Size 5 | 5 | 70kg - 100kg | 10 |

# LarySeal Plus

LarySeal Plus offers the convenience of combining a single patient use laryngeal mask airway, lubricating jelly and the LarySeal cuff inflator in one single pack for quick and effortless insertion.

## Wide Choice

The all inclusive insertion pack is available with either LarySeal Blue or LarySeal Clear providing greater flexibility of clinical preference.

## LarySeal Inflator

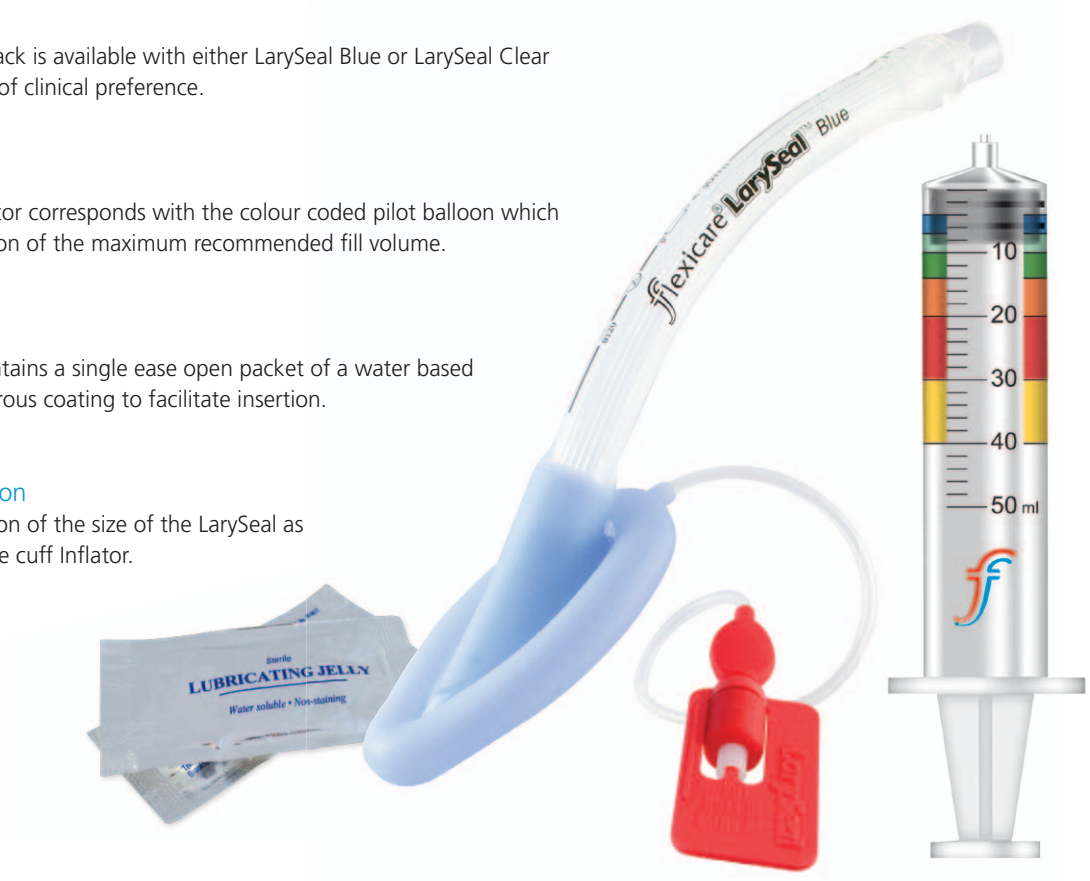
The colour coded cuff inflator corresponds with the colour coded pilot balloon which allows for quick identification of the maximum recommended fill volume.

## Easy Open Lubricator

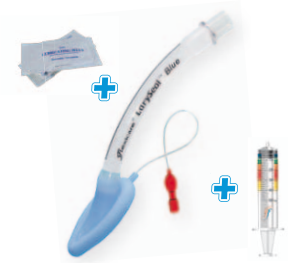
Each LarySeal Plus pack contains a single ease open packet of a water based lubricant to provide a generous coating to facilitate insertion.

## Colour Coded Pilot Balloon

Provides a visual confirmation of the size of the LarySeal as well as corresponding to the cuff Inflator.




## LarySeal Blue Plus silicone single patient use airway



| | | | | |
|---|---|---|---|---|
| 038-94-210P | LarySeal Blue Plus, lubricant & inflator - Size 1 | 1 | <5kg | 10 |
| 038-94-215P | LarySeal Blue Plus, lubricant & inflator - Size 1.5 | 1.5 | 5kg - 10kg | 10 |
| 038-94-220P | LarySeal Blue Plus, lubricant & inflator - Size 2 | 2 | 10kg - 20kg | 10 |
| 038-94-225P | LarySeal Blue Plus, lubricant & inflator - Size 2.5 | 2.5 | 20kg - 30kg | 10 |
| 038-94-230P | LarySeal Blue Plus, lubricant & inflator - Size 3 | 3 | 30kg - 50kg | 10 |
| 038-94-240P | LarySeal Blue Plus, lubricant & inflator - Size 4 | 4 | 50kg - 70kg | 10 |
| 038-94-250P | LarySeal Blue Plus, lubricant & inflator - Size 5 | 5 | 70kg - 100kg | 10 |

## LarySeal Clear Plus PVC single patient use airway

| | | | | |
|---|---|---|---|---|
| 038-94-310P | LarySeal Clear Plus, lubricant & inflator - Size 1 | 1 | <5kg | 10 |
| 038-94-315P | LarySeal Clear Plus, lubricant & inflator - Size 1.5 | 1.5 | 5kg - 10kg | 10 |
| 038-94-320P | LarySeal Clear Plus, lubricant & inflator - Size 2 | 2 | 10kg - 20kg | 10 |
| 038-94-325P | LarySeal Clear Plus, lubricant & inflator - Size 2.5 | 2.5 | 20kg - 30kg | 10 |
| 038-94-330P | LarySeal Clear Plus, lubricant & inflator - Size 3 | 3 | 30kg - 50kg | 10 |
| 038-94-340P | LarySeal Clear Plus, lubricant & inflator - Size 4 | 4 | 50kg - 70kg | 10 |
| 038-94-350P | LarySeal Clear Plus, lubricant & inflator - Size 5 | 5 | 70kg - 100kg | 10 |

# Laryngoscopes - Introduction

First introduced by Sir Robert Macintosh and Sir Ivan Magill in the early 1940's, the Laryngoscope has evolved since it's inception. It followed the creation of the Endotracheal tube, Laryngoscopes permit access to push the tongue back and provide light to allow visualisation of the vocal chords for accurate placement of the airway.

## The Classification of Laryngoscopes

Laryngoscopes can be primarily classified into two categories, defined by their light source.

### 1. Standard Laryngoscopes

The Standard Laryngoscope, also referred to as Conventional Laryngoscopes, has a light bulb incorporated into the blade, approximately 1/3 of the distance from the tip. The light bulb screws into position and is powered via an integral line that transfers the power from the source. The power source is located within the handle in the form of conventional batteries.

### 2. Fibre Optic Laryngoscopes

The major difference between the Standard Laryngoscope and the Fibre Optic Laryngoscope is the location of the bulb. In the Fibre Optic System, the bulb is housed within the handle with the light transmitted via an optic bundle.

The main advantage that this system presents is that it transmits light without transferring heat and thus eliminating the risk of burns within the patients oral cavity. There is also the added advantage of one-piece autoclaving.

## Disposable Blades

Due to the recent issues involving CJD (prions) where decontamination of the blades could not be ensured, there remains a risk of cross infection. As a measure to combat the potential risk of cross contamination there has been a move towards Disposable Blades. Recent studies have also shown that laryngoscope handles are a major source of cross contamination, with few being sterilised as often as needed.[1]

The BriteBlade and BriteBlade Pro are disposable fibre optic blades designed for single patient use which eliminates the risk of cross contamination. They have a unique and patented hinge design that prevents the folded blade from touching the handle, thus eliminating the need for disposable handles or sleeves.

## Difficult Intubation

Flexicare also provide Laryngoscopes for difficult intubations. The Flexible blade system clears the tongue further than is possible with the conventional designed laryngoscopes to allow positive identification of the airway.

[1] D. Williams, J. Dingley, C. Jones, N. Berry
'Contamination of laryngoscope handles' Journal of hospital infection (2010) 74, 123-128

# Fibre Optic Reusable Blades

Flexicare have a full range of reusable fibre optic laryngoscope blades and handles conforming to EN ISO 7376. Using the highest grades of fibre optics allows maximum cold light transfer allowing clinicians to gain an optimum view of the larynx. All reusable fibre optic blades and handles are fully autoclavable and are supported by a lifetime guarantee.[1]

## Fibre Optic Macintosh Blades

The curved design of the Macintosh Blade allows the tip to be guided to the epiglottic vallecula for direct visualization of the glottis whilst maintaining the tongue to the side for intubation.

| | | |
|---|---|---|
| 040-831 | Fibre Optic Macintosh Blade Number 1 | 1 |
| 040-832 | Fibre Optic Macintosh Blade Number 2 | 1 |
| 040-833 | Fibre Optic Macintosh Blade Number 3 | 1 |
| 040-834 | Fibre Optic Macintosh Blade Number 4 | 1 |

## Fibre Optic Flexible Blades

| | | |
|---|---|---|
| 040-835 | Flexible Fibre Optic Blade Number 3 | 1 |
| 040-836 | Flexible Fibre Optic Blade Number 4 | 1 |

## Fibre Optic Miller Blades

The straight design with a shallow curve of the Miller Blade tip provides greater control in patients whose epiglottis is larger, as in paediatrics. The infant and neonatal miller blades are also available with a oxygen delivery port to reduce the risk of hypoxia during laryngoscopy.

| | | |
|---|---|---|
| 040-840 | Fibre Optic Oxy Miller Number 00 | 1 |
| 040-849 | Fibre Optic Miller Number 00 | 1 |
| 040-841 | Fibre Optic Oxy Miller Number 0 | 1 |
| 040-850 | Fibre Optic Miller Number 0 | 1 |
| 040-851 | Fibre Optic Miller Number 1 | 1 |
| 040-852 | Fibre Optic Miller Number 2 | 1 |
| 040-853 | Fibre Optic Miller Number 3 | 1 |
| 040-854 | Fibre Optic Miller Number 4 | 1 |

[1] For details of the lifetime guarantee please visit our website

# IntegraBlade Fibre Optic Laryngoscope Blades

The integrated fibre optic within the body of the IntegraBlade makes the structure seamless, therefore reducing the risks of contamination or foreign bodies becoming trapped.

IntegraBlade

## Increased Brightness

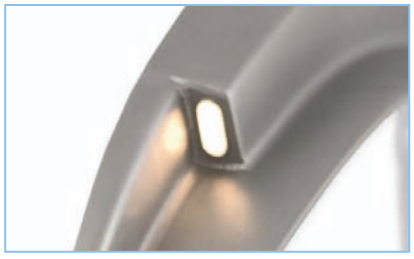
The Flexicare IntegraBlade range are designed with an integrated wide profile fibre optic bundle to provide maximum light transfer.

## Rounded Tip

The blade features an atraumatic curved tip which reduces the risk of tissue damage.

## Fully Autoclavable

The 100% stainless steel construction of the blade provides long life of the blade even during extensive autoclaving.



| | | |
|---|---|---|
| 040-911 | Integra Fibre Optic Macintosh Blade - No 1 | 1 |
| 040-912 | Integra Fibre Optic Macintosh Blade - No 2 | 1 |
| 040-913 | Integra Fibre Optic Macintosh Blade - No 3 | 1 |
| 040-914 | Integra Fibre Optic Macintosh Blade - No 4 | 1 |

# Speciality Blades

Flexicare has a range of fibre optic reusable speciality blades designed to provide clinicians with complete freedom of choice for specific patient intubation requirements.

## Robert Shaw Fibre Optic Blades

Designed for neonatal and Infant use, Robert Shaw blades feature a gentle shallow curvature of the bade to lift the epiglottis indirectly in a similar way to the Macintosh Blades.

| | | |
|---|---|---|
| 040-930 | Robert Shaw Fibre Optic Blade No 0 | 1 |
| 040-931 | Robert Shaw Fibre Optic Blade No 1 | 1 |

## Seward Fibre Optic Blades

Designed originally as an infant blade for asphyxia neonatorum, the Seward Blade is also available for paediatrics.

| | | |
|---|---|---|
| 040-951 | Seward Fibre Optic Blade No 1 | 1 |
| 040-952 | Seward Fibre Optic Blade No 2 | 1 |

## Wisconsin Fibre Optic Blades

Designed for neonatal and infant use, the Wisconsin Blade provides an improved view than a standard Miller Blade. Providing greater control of the epiglottis with a subtly wider distal end.

| | | |
|---|---|---|
| 040-920 | Wisconsin Fibre Optic Blade No 0 | 1 |
| 040-921 | Wisconsin Fibre Optic Blade No 1 | 1 |
| 040-922 | Wisconsin Fibre Optic Blade No 2 | 1 |
| 040-923 | Wisconsin Fibre Optic Blade No 3 | 1 |
| 040-924 | Wisconsin Fibre Optic Blade No 4 | 1 |

# Single Patient Use Metal Fibre Optic Laryngoscopes

The BriteBlade Pro is a 100% Metal Disposable Fibre Optic Blade designed for single patient use which eliminates risk of cross contamination from both blade and handle. It has a unique hinge design that prevents the folded blade from touching the handle.

## BriteBlade Pro™

### Enhanced Vision
Bright, focused high intensity illumination

### Reduced Risk of Damaging Patient Teeth
Low profile design on both Mac & Miller laryngoscope blades.

### Eliminate Risk of Cross-Contamination
Blade stop design in folded position prevents the blade from touching the handle.[1]

### Fits all Green Specification Handles

### Confidence & Control
100% metal construction matches the proven re-usable blade characteristics.

### Eliminate Risk of Cross-Infection
Single-use individually packed pre-sterilized blade.

### Wide Choice at a Low Cost
Full range of Mac & Miller Blades with a lower overall cost than re-usable purchase, maintenance, cleaning and sterilization costs.

BriteBlade Pro shares the same great features and benefits as the BriteBlade but in a metal blade form, providing the same feel as a re-usable blade and the user with greater confidence.

| | | |
|---|---|---|
| 040-711 | BriteBlade Pro Fibre Optic Macintosh Blade - No 1 | 10 |
| 040-712 | BriteBlade Pro Fibre Optic Macintosh Blade - No 2 | 10 |
| 040-713 | BriteBlade Pro Fibre Optic Macintosh Blade - No 3 | 10 |
| 040-714 | BriteBlade Pro Fibre Optic Macintosh Blade - No 4 | 10 |
| 040-720N | BriteBlade Pro Fibre Optic Miller Blade - No 00 | 10 |
| 040-720 | BriteBlade Pro Fibre Optic Miller Blade - No 0 | 10 |
| 040-721 | BriteBlade Pro Fibre Optic Miller Blade - No 1 | 10 |
| 040-722 | BriteBlade Pro Fibre Optic Miller Blade - No 2 | 10 |
| 040-723 | BriteBlade Pro Fibre Optic Miller Blade - No 3 | 10 |
| 040-724 | BriteBlade Pro Fibre Optic Miller Blade - No 4 | 10 |
| 040-730 | BriteBlade Pro Fibre Optic Oxy Miller Blade - No 0 | 10 |
| 040-731 | BriteBlade Pro Fibre Optic Oxy Miller Blade - No 00 | 10 |

[1] For details of the lifetime guarantee please visit our website

# Single Patient Use Fibre Optic Laryngoscopes

BriteBlade Evo is a fibre optic hybrid metal laryngoscope blade with a reinforced nylon base locking system designed for single patient use to fit all green specification handles.

## BriteBlade Evo

### Reduced Risk of Soft Tissues Injury
Rounded tip and edges provides gentle touch on patients soft tissues.

### Positive Locking System
The triple sprung ball bearing design creates a secure and strong fit to all green spec handles

### Enhanced Vision
Bright focused high intensity illumination with a true fibre optic shrouded bundle.

### Reduced Risk of Damaging Patient Teeth
Low profile design on both Mac & Miller blades.

### Eliminates Risk of Cross-Infection
Single use individual sterile pack.

### Wide Choice
Full range of Mac & Miller Blades with a lower overall cost than reusable purchase, maintenance, cleaning and sterilization costs.

| | | |
|---|---|---|
| 040-751 | BriteBlade Evo Macintosh 1 | 10 |
| 040-752 | BriteBlade Evo Macintosh 2 | 10 |
| 040-753 | BriteBlade Evo Macintosh 3 | 10 |
| 040-754 | BriteBlade Evo Macintosh 4 | 10 |
| 040-761 | BriteBlade Evo Miller 1 | 10 |
| 040-762 | BriteBlade Evo Miller 2 | 10 |
| 040-763 | BriteBlade Evo Miller 3 | 10 |
| 040-764 | BriteBlade Evo Miller 4 | 10 |
| 040-733 | BriteBlade Pro Fibre Optic Macintosh Blade Flexible - No 3 | 10 |
| 040-734 | BriteBlade Pro Fibre Optic Macintosh Blade Flexible - No 4 | 10 |

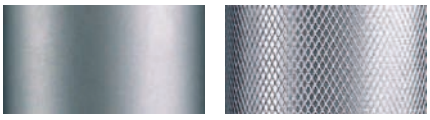
# Fibre Optic Re-Usable Laryngoscope Handles & Box Sets

All handles are Bipolar, allowing the Laryngoscope to function irrespective of the way the batteries are inserted. The handles can be opened from either end in order to remove swelled batteries with ease.

Mini | Mini | Standard | Standard | Stubby | Stubby | Fibre Optic Laryngoscope Box Set

## Available in Two Finishes

The range of Laryngoscope handles are available in a smooth or knurled finish.



Smooth | Knurled

## Box Sets

A range of box sets are available, with combinations of 3 or 4 blades.

### Fibre Optic Handles

| | | |
|---|---|---|
| 040-811 | Standard Size Fibre Optic Handle - Knurled Finish | 1 |
| 040-821 | Standard Size Fibre Optic Handle - Satin Finish | 1 |
| 040-812 | Penlight Size Fibre Optic Handle - Knurled Finish | 1 |
| 040-822 | Penlight Size Fibre Optic Handle - Satin Finish | 1 |
| 040-823 | Stubby Size Fibre Optic Handle - Knurled Finish | 1 |
| 040-824 | Stubby Size Fibre Optic Handle - Satin Finish | 1 |

### Halogen Bulbs

| | | |
|---|---|---|
| 041-601 | Halogen Bulb (for use with Fibre Optic Handles) | 1 |
| 041-606 | Halogen Bulb (for use with Fibre Optic Handles) | 6 |

### Fibre Optic Box Sets

| | | |
|---|---|---|
| 040-860 | Standard Size Handle - Knurled, with 3 Macintosh Blades No's 1, 2 and 3 | 1 |
| 040-861 | Standard Size Handle - Knurled, with 4 Macintosh Blades No's 1, 2, 3 and 4 | 1 |
| 040-862 | Standard Size Handle - Knurled, with 3 Macintosh Blades No's 2, 3 and 4 | 1 |

# LED Handles

Flexicare have developed a range of handles which are capable of delivering a high lumination and are compatible with all fibre optic blades conforming to EN ISO 7376. BritePro Max uses the latest in LED technology to provide an electroluminescence which is a pure white light allowing clinicians to have a brighter view of the larynx and a truer view of tissue viability or lesions.

## BritePro Max

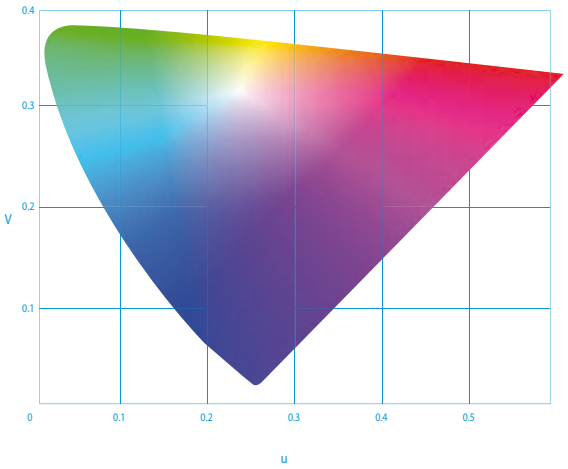
### Energy Efficient
Delivers over 25,000 hours of light without the need to replace the bulb.

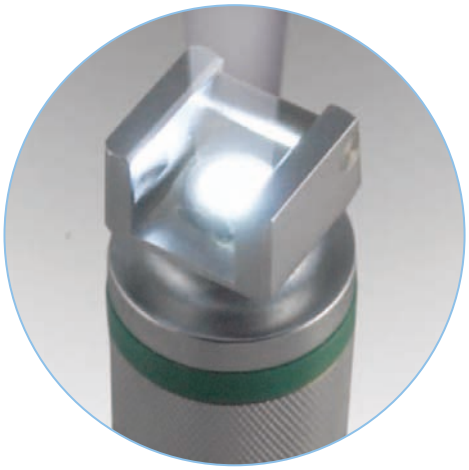
### Green System Identification
BritePro Max has the universally accepted colour identification green band to signify that the handle will fit fibre optic blade systems.

### Compatible with all Fibre Optic Blades
BritePro Max is compatible with all fibre optic blades conforming to ISO EN 7376 includes, the BriteBlade Pro, EVO and reusable fibre optic blades.

### Lower Battery Cost
The energy efficiency of LED technology uses less power from the batteries than conventional halogen or krypton bulbs therefore reducing the need for frequent battery replacement.

### True White Light



BritePro Max achieves an optimum white light within the wavelength range by utilizing a UV diode with a yellow phosphor semiconductor. The visible light achieved enables clinicians to view the oropharyngeal clearly without other colour temperatures within the spectrum detracting from visualization of the vocal chords during intubation.

The typical life span of the LED is in excess of 25,000 hours with the added benefit of maintaining its light output and efficiency throughout its term. As an energy efficient technology, BritePro Max will use less power from the batteries in comparison to halogen or krypton bulbs providing up to 5,000 intubations per set of battery cells without loss of its high light output.

| | | |
|---|---|---|
| 040-813 | BritePro Max LED Handle | 1 |

# Single Patient Use Fibre Optic Laryngoscope Handle

BritePro is a single patient use fibre optic handle system which comprises of a disposable handle and a reusable light source utilizing the latest in LED technology providing clinicians with a complete system.

## BritePro Handle

### Single Patient Use
Clearly marked to ensure that the handle is only used as intended.

### Comfort Grip
The main body of the handle incorporates a green textured grip which provides excellent control and feel even when wearing gloves. Easy visual identification of the handles fibre optic using the internationally recognized colour coding.

### Eliminate Risk of Cross-Contamination
Single use individually packed pre-sterilized handle.

### Rotating Metal Hinge
A freely rotating metal hinge allows the blade to be inserted easily whilst providing a positive locking mechanism when moved into the closed position.

### Fully Encased Handle
BritePro features a completely unique encased mechanism which prevents any possibility of cross contamination. Incorporated within the encased handle is a freely moving light intensifier which increases the transfer of light from the LightSource through to the tip of the fibre optic blade.

### BritePro Handle

| | | |
|---|---|---|
| 040-791 | BritePro Handle | 20 |

### BritePro Handle & Blade

| | | |
|---|---|---|
| 040-771 | BritePro Handle and BriteBlade Evo Macintosh Size 1 | 10 |
| 040-772 | BritePro Handle and BriteBlade Evo Macintosh Size 2 | 10 |
| 040-773 | BritePro Handle and BriteBlade Evo Macintosh Size 3 | 10 |
| 040-774 | BritePro Handle and BriteBlade Evo Macintosh Size 4 | 10 |
| 040-776 | BritePro Handle and BriteBlade Evo Miller Size 1 | 10 |
| 040-777 | BritePro Handle and BriteBlade Evo Miller Size 2 | 10 |
| 040-778 | BritePro Handle and BriteBlade Evo Miller Size 3 | 10 |
| 040-779 | BritePro Handle and BriteBlade Evo Miller Size 4 | 10 |

# Britepro Light Source

LightSource is the reusable element of the BritePro system which contains the lithium battery and LED.

LightSource

The latest technology has been used to develop an efficient LED whilst providing a white light within the colour spectrum ensuring that there is no bias between blue or red light which could make visualization of the vocal chords harder.

The benefits of this system is that there is no contamination as the light source is protected. The LED lightsource provides cool illumination for up to 10 hours and is energy efficient giving long lasting power, reducing the cost of expensive battery replacement while also being more environmentally friendly.

- Long life Battery
- Packed with Battery
- Reusable Light Source
- LED Light Output at over 800 LUX

There are five options available when purchasing BritePro.

LightSource: Single unit complete with battery.

BritePro Handle: Comes packaged in a box of 20.

BritePro Handle & Blade: BritePro handle with a choice of blade.

BritePro Handle & LightSource: BritePro Handle and LightSource with optional battery.

BritePro Complete: Contains all elements required to use the BritePro immediately, pre-assembled for testing in the packaging.

## Light Source

| | | |
|---|---|---|
| 040-792 | LightSource | 1 |

## BritePro Handle & Light Source

| | | |
|---|---|---|
| 040-794 | BritePro Handle and Light Source | 20 |
| 040-795 | BritePro Handle and Light Source with Battery | 20 |

## BritePro Complete

| | | |
|---|---|---|
| 040-701 | BritePro Complete with BriteBlade Evo Macintosh Size 1 | 10 |
| 040-702 | BritePro Complete with BriteBlade Evo Macintosh Size 2 | 10 |
| 040-703 | BritePro Complete with BriteBlade Evo Macintosh Size 3 | 10 |
| 040-704 | BritePro Complete with BriteBlade Evo Macintosh Size 4 | 10 |
| 040-706 | BritePro Complete with BriteBlade Evo Miller Size 1 | 10 |
| 040-707 | BritePro Complete with BriteBlade Evo Miller Size 2 | 10 |
| 040-708 | BritePro Complete with BriteBlade Evo Miller Size 3 | 10 |
| 040-709 | BritePro Complete with BriteBlade Evo Miller Size 4 | 10 |

# Standard Laryngoscope Blades

The standard range of laryngoscopes are manufactured from high quality stainless steel supported by a lifetime guarantee[1]. The light bulb in the blade can easily be changed and the distance from the bulb to the blade tip will protect the patient from accidental burns, whilst providing a high level of illumination.

High Quality Stainless Steal • Fully Autoclavable Blades • Full Range of Blade Sizes • Conforming to EN ISO 7376

## Standard Macintosh Blades

| | | |
|---|---|---|
| 040-110 | Standard Macintosh Blade Number 1 | 1 |
| 040-111 | Standard Macintosh Blade Number 2 | 1 |
| 040-112 | Standard Macintosh Blade Number 3 | 1 |
| 040-113 | Standard Macintosh Blade Number 4 | 1 |

## Standard Miller Blades

| | | |
|---|---|---|
| 040-127 | Standard Oxy Miller No 00 | 1 |
| 040-129 | Standard Miller No 00 | 1 |
| 040-128 | Standard Oxy Miller No 0 | 1 |
| 040-130 | Standard Miller No 0 | 1 |
| 040-131 | Standard Miller No 1 | 1 |
| 040-132 | Standard Miller No 2 | 1 |
| 040-133 | Standard Miller No 3 | 1 |
| 040-134 | Standard Miller No 4 | 1 |

[1] For details of the lifetime guarantee please visit our website

# Speciality Blades

Flexicare has a range of conventional reusable speciality blades designed to provide clinicians with complete freedom of choice for specific patient intubation requirements.

## Robert Shaw Conventional Blades

Designed for neonatal and Infant use, Robert Shaw blades feature a gentle shallow curvature of the blade to lift the epiglottis indirectly in a similar way to the Macintosh Blades.

| | | |
|---|---|---|
| 040-230 | Robert Shaw Conventional Blade No 0 | 1 |
| 040-231 | Robert Shaw Conventional Blade No 1 | 1 |

## Seward Conventional Blades

Designed originally as an infant blade for asphyxia neonatorum, Seward Blades are also available for paediatrics.

| | | |
|---|---|---|
| 040-261 | Seward Conventional Blade No 1 | 1 |
| 040-262 | Seward Conventional Blade No 2 | 1 |

## Wisconsin Conventional Blades

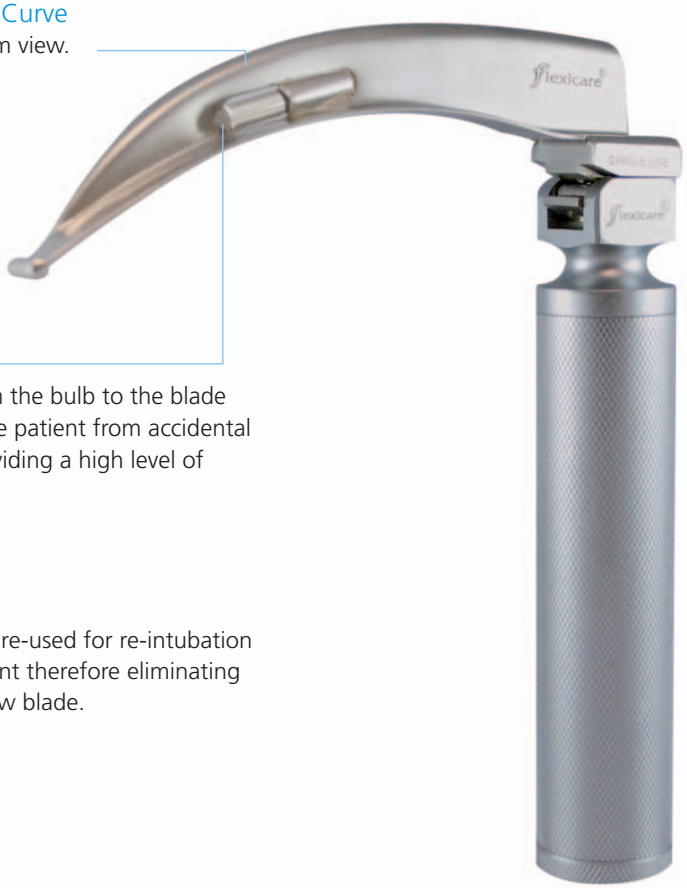
Designed for neonatal and infant use, Wisconsin Blades provide an improved view than a standard Miller Blade and also greater control of the epiglottis with the subtly wider distal end of the blade.

| | | |
|---|---|---|
| 040-250 | Wisconsin Conventional Blade No 0 | 1 |
| 040-251 | Wisconsin Conventional Blade No 1 | 1 |
| 040-252 | Wisconsin Conventional Blade No 3 | 1 |
| 040-253 | Wisconsin Conventional Blade No 4 | 1 |
| 040-254 | Wisconsin Conventional Blade No 5 | 1 |

# Disposable Metal Blades & Handles

Flexicare offers a standard illumination disposable metal blade providing all the benefits in a single patient use form, negating the need for costly sterilisation.

### True Macintosh Curve
Provides maximum view.




### Halogen bulb
The distance from the bulb to the blade tip will protect the patient from accidental burns, whilst providing a high level of illumination.

### Cost Effective
The blade can be re-used for re-intubation of the same patient therefore eliminating the need for a new blade.

### Visible Markings
Each blade is clearly marked as Single Patient Use, avoiding the possibility of confusion with Reusable Blades.

### Low Profile Design
Reduces the risk of accidental pressure or damage to the upper teeth.

### Reduce the Risk of Cross Contamination
The standard bulb disposable metal laryngoscope range is designed and manufactured for Single Patient Use.

The disposable Laryngoscopes are an economical option for routine intubations, saving time and labour by requiring no sterilization, disinfecting or maintenance. Flexicare's disposable laryngoscopes help to eliminate the concern of possible cross-contamination from hepatitis, AIDS and other infectious diseases.

Standard Disposable Metal Blades are available in all Macintosh sizes and can be used with either a reusable standard handle or for a total single patient use solution, a disposable standard metal handle is available.

| | | |
|---|---|---|
| 040-431 | Disposable Metal Macintosh Number 1 | 10 |
| 040-432 | Disposable Metal Macintosh Number 2 | 10 |
| 040-433 | Disposable Metal Macintosh Number 3 | 10 |
| 040-434 | Disposable Metal Macintosh Number 4 | 10 |
| 040-430 | Disposable Metal Handle | 10 |

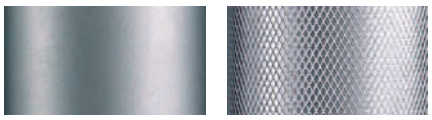
# Standard Re-Usable Laryngoscope Handles & Box Sets

All handles are Bipolar, allowing the Laryngoscope to function irrespective of which way the batteries are inserted. The handles can be opened at either end in order to remove swelled batteries with ease.

Mini | Mini | Standard | Standard | Stubby | Stubby | Standard Laryngoscope Box Set

## Available in Two Finishes

The range of Laryngoscope handles are available in a smooth or knurled finish.



Smooth | Knurled

## Box Sets

A range of box sets are available, with combinations of 3 or 4 blades.

## Standard Handles

| | | |
|---|---|---|
| 040-021 | Standard Size Standard Handle - Knurled Finish | 1 |
| 040-011 | Standard Size Standard Handle - Satin Finish | 1 |
| 040-022 | Penlight Size Standard Handle - Knurled Finish | 1 |
| 040-012 | Penlight Size Standard Handle - Satin Finish | 1 |
| 040-023 | Stubby Size Standard Handle - Knurled Finish | 1 |
| 040-013 | Stubby Size Standard Handle - Satin Finish | 1 |

## Kryton Bulbs

| | | |
|---|---|---|
| 041-401 | Small Kryton Bulb (for use with Standard Miller Blades No's 00, 0 and 1) | 1 |
| 041-402 | Standard Kryton Bulb (for use with Standard Blades) | 1 |

## Standard Box Sets

| | | |
|---|---|---|
| 040-239 | Standard Size Handle - Knurled, with 3 Macintosh Blades No's 2, 3 and 4 | 1 |
| 040-240 | Standard Size Handle - Knurled, with 3 Macintosh Blades No's 1, 2 and 3 | 1 |
| 040-241 | Standard Size Handle - Knurled, with 4 Macintosh Blades No's 1, 2, 3 and 4 | 1 |

# Packs & Magill Forceps

## Packs

In addition to the Fibre Optic and Standard Reusable Laryngoscope Box Sets which are readily available, Flexicare offer a customisation option whereby clinicians can choose a combination of handles and blades for a bespoke intubation pack. The handles and blades are protected by the outer casing as well as the securely held in place within designated foam inner compartments.
For further information please contact us to discuss your requirements.

## Magill Forceps

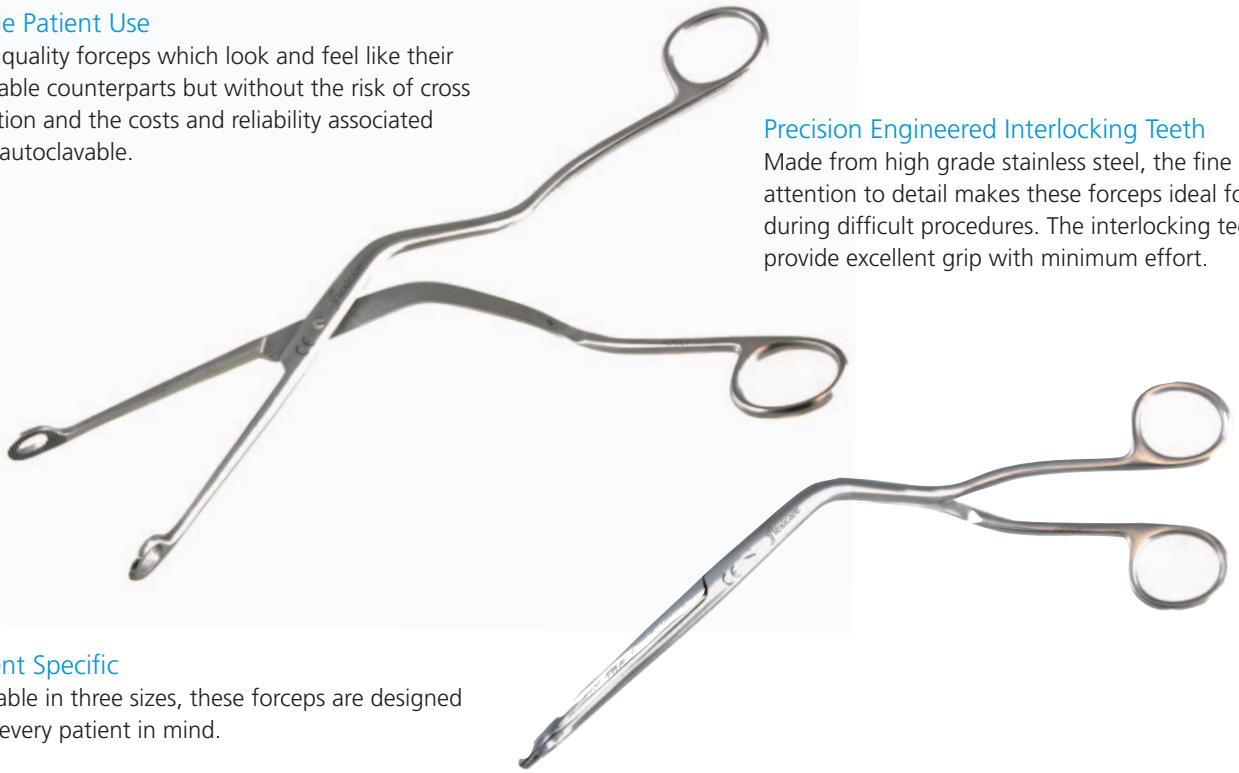
Flexicare offers a range of Magill Forceps which are designed to allow clinicians to guide tracheal tubes into the larynx or aid nasogastric tubes into the oesophagus whilst maintaining an uninterrupted view from the laryngoscope. The stainless steel single patient use forceps are available in 3 sizes to meet specific patients' requirements.

### Single Patient Use

High quality forceps which look and feel like their re-usable counterparts but without the risk of cross infection and the costs and reliability associated with autoclavable.

### Precision Engineered Interlocking Teeth

Made from high grade stainless steel, the fine attention to detail makes these forceps ideal for use during difficult procedures. The interlocking teeth provide excellent grip with minimum effort.



### Patient Specific

Available in three sizes, these forceps are designed with every patient in mind.

| | | |
|---|---|---|
| 042-411 | Magill Forceps Adult | 1 |
| 042-412 | Magill Forceps Child | 1 |
| 042-413 | Magill Forceps Infant | 1 |

# Endotracheal Tubes

An Endotracheal Tube is a device inserted into the patient's trachea through the mouth or nose to maintain an open airway. It is used to assist the delivery of anaesthetic gases or air to and from the patient. Control of the airway with Endotracheal tube is usually regarded as the 'Gold Standard' (C. McCartney and D.J. Wilkinson, Current Anaesthesia and Critical Care 1995).

## Tracheal Intubation Objectives

- Guarantee patency of the upper airway.
- Allow mechanical positive pressure management.
- Protect the airway from gastric contents.
- Permits tracheobronchial suction.

## Anatomy and Physiology of the Respiratory System

The respiratory system can be broadly defined into the upper respiratory tract and the lower respiratory tract. The organs of the system include the nasal cavities, the pharynx, the larynx, the trachea, the bronchi and their smaller branches and the lungs which contain the terminal air sacs or alveoli.

Air inhaled through the nasal cavity is filtered by cilia. The air is also warmed and moistened by the capillary blood supply to the mucosa of the upper respiratory tract. The air then goes into the pharynx, larynx and followed by the trachea. The trachea stretches and descends during inspiration and recoils during expiration. The cartilage rings prevent it from collapsing and maintaining patency during breathing.

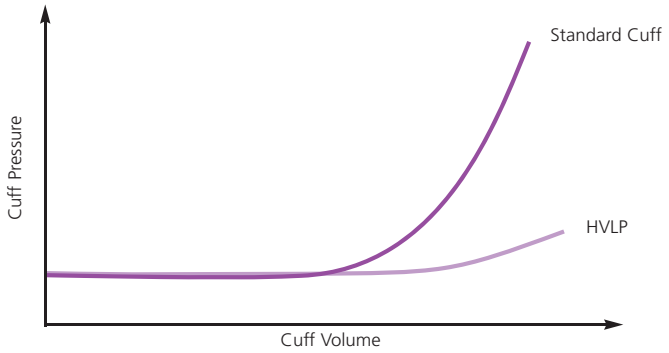
Air enters the right and left bronchus before reaching the bronchioles and later the alveoli, which contain capillaries where the gaseous exchange takes places. To ensure that the lungs are being ventilated at all times and protect against potential blockages by the tip of the tube resting on the tracheal wall, all Flexicare Endotracheal Tubes have a Murphy Eye as standard. The Murphy Eye also helps to maintain flow during suctioning, and also aids in maintaining the flow of the gases to both lungs should the tube move further into one of the bronchuses.

Flexicare offer endotracheal tubes with two different cuff types:

## Standard Low Pressure Cuffs

## VentiSeal High Volume Low Pressure Cuffs (HVLP)

The graph demonstrates the difference between the two types of Endotracheal tubes in relation to cuff pressure and cuff volume. The pressure necessary for the Standard Cuff to form an adequate seal increases as cuff volume increases. This happens at a higher ratio than compared with the Endosoft HVLP cuff. This characteristic determines the term of use of the respective cuffed endotracheal tubes.




The Standard Low Pressure Endotracheal Tubes are ideal for short-term intubation while the VentiSeal HVLP cuff is designed for longer term anaesthesia or intensive care where the cuff forms a seal without putting excess pressure on the wall of the trachea. Over inflation of a Standard Cuff and prolonged use will occlude the capillaries in the tracheal wall and will cause necrosis as shown in Figure 1.

The Murphy Eye is standard on all Flexicare Endotracheal Tubes to ensure that adequate ventilation is maintained even if the tip of the Tube was fixed to the tracheal wall or occluded by secretions, as shown in Figure 2.

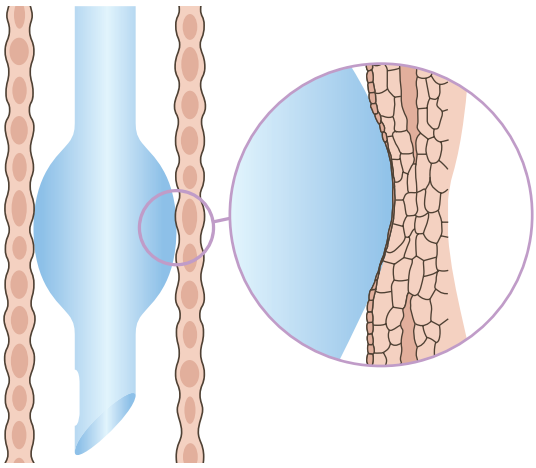


Figure 1

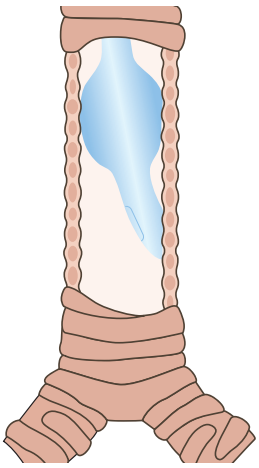


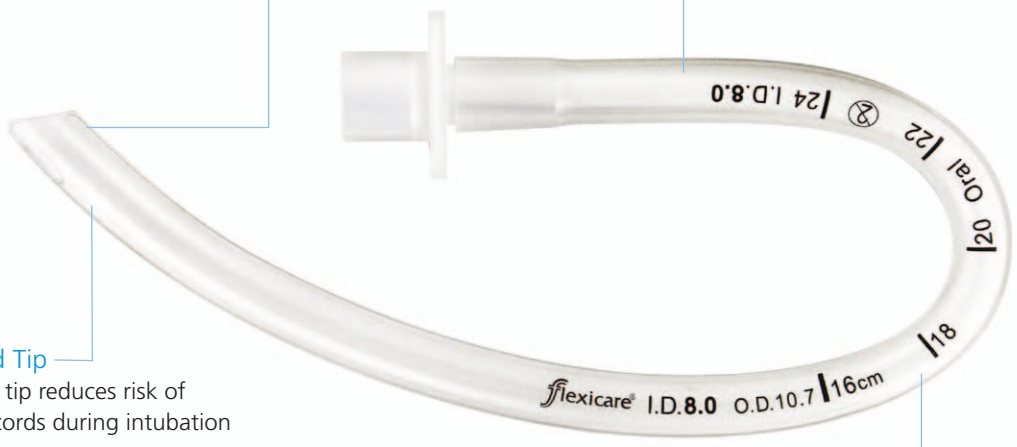
Figure 2

# Endotracheal Tubes - Plain Tubes (without cuff)

Our comprehensive range of Endotracheal Tubes have unique features to ensure patient's safety and comfort, allowing intubation with total confidence. Each individual tube is tested for integrity and safety.

### Optimum Size Murphy Eye
The optimum size murphy eye is smoothly rounded to reduce patient trauma during intubation, whilst minimising the risk of occlusion.

### High Resolution Radiopaque Line
Guarantees easy and accurate identification of tube position and location during x-ray.




### Smooth Bevelled Tip
Rounded bevelled tip reduces risk of damage to vocal cords during intubation

### Kink Resistant
Ensures tube patency for patient safety, whilst softening at body temperature to conform to the patient's respiratory tract.

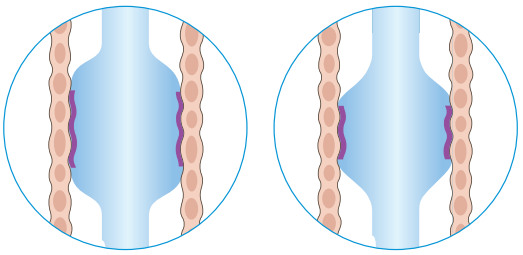
| SIZE ID (mm) | ORAL/NASAL | CURVED (Oral) SOUTH | CURVED (Nasal) NORTH | REINFORCED | PACK SIZE |
|---|---|---|---|---|---|
| 2.5 | 038-961-025 | | | | 10 |
| 3.0 | 038-961-030 | | 038-964-030 | 038-965-030 | 10 |
| 3.5 | 038-961-035 | | 038-964-035 | 038-965-035 | 10 |
| 4.0 | 038-961-040 | | 038-964-040 | 038-965-040 | 10 |
| 4.5 | 038-961-045 | | 038-964-045 | 038-965-045 | 10 |
| 5.0 | 038-961-050 | 038-962-050 | 038-964-050 | 038-965-050 | 10 |
| 5.5 | 038-961-055 | 038-962-055 | 038-964-055 | 038-965-055 | 10 |
| 6.0 | 038-961-060 | 038-962-060 | 038-964-060 | 038-965-065 | 10 |
| 6.5 | 038-961-065 | 038-962-065 | 038-964-065 | 038-965-065 | 10 |
| 7.0 | 038-961-070 | 038-962-070 | 038-964-070 | 038-965-070 | 10 |
| 7.5 | 038-961-075 | 038-962-075 | | 038-965-075 | 10 |
| 8.0 | 038-961-080 | 038-962-080 | | 038-965-080 | 10 |
| 8.5 | 038-961-085 | 038-962-085 | | 038-965-085 | 10 |
| 9.0 | 038-961-090 | 038-962-090 | | 038-965-090 | 10 |
| 9.5 | 038-961-095 | | | | 10 |
| 10.0 | 038-961-100 | | | | 10 |
| 10.5 | 038-961-105 | | | | 10 |
| 11.0 | 038-961-110 | | | | 10 |

# Endotracheal Tubes - VentiSeal (High Volume Low Pressure)

Reduced Risk of Vocal Injury and Trachea Necrosis - An optimum volume cuff with ideal pressure distribution and effective sealing. Smaller thin wall cuff reduces abrasive creases and folds. The ultra-smooth material permits gentle conformity to tracheal contours.

VentiSeal™

The diagram demonstrates the difference between the surface area that is in contact with the trachea when using a VentiSeal Cuffed Tube and a conventional tube. The cuff length of the VentiSeal Endotracheal Tube enables the pressure to be distributed over a larger surface therefore minimising the pressure placed on the tracheal wall and reducing the risk of tracheal wall necrosis.



VentiSeal Conventional

**Depth Guide**
The double line guide facilitates accurate cuff placement below vocal cord.

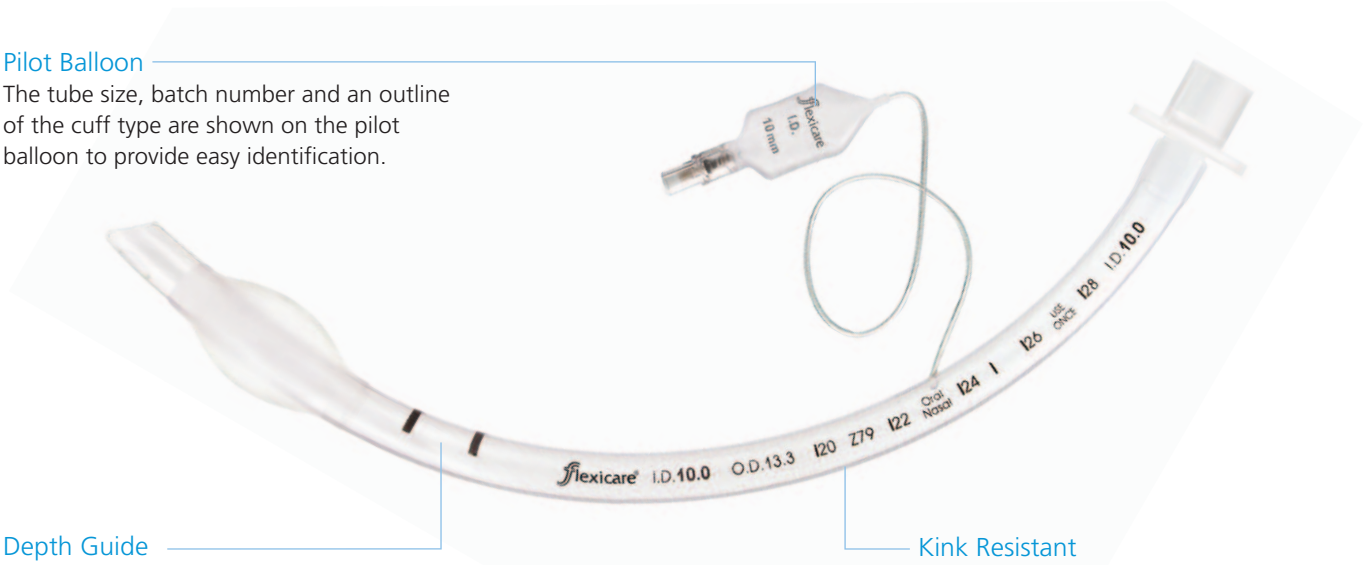
**Kink Resistant**
Ensures tube patency for patient safety, whilst softening at body temperature to conform to the patient's respiratory tract.

| SIZE ID (mm) | ORAL/NASAL | CURVED (Oral) SOUTH | ANATOMICAL (Oral) | CURVED (Nasal) NORTH | REINFORCED | PACK SIZE |
|---|---|---|---|---|---|---|
| 4.0 | 038-971-040 | | | | | 10 |
| 4.5 | 038-971-045 | | | | | 10 |
| 5.0 | 038-971-050 | 038-972-050 | | | | 10 |
| 5.5 | 038-971-055 | 038-972-055 | | | | 10 |
| 6.0 | 038-971-060 | 038-972-060 | 038-973-060 | 038-974-060 | 038-975-060 | 10 |
| 6.5 | 038-971-065 | 038-972-065 | 038-973-065 | 038-974-065 | 038-975-065 | 10 |
| 7.0 | 038-971-070 | 038-972-070 | 038-973-070 | 038-974-070 | 038-975-070 | 10 |
| 7.5 | 038-971-075 | 038-972-075 | 038-973-075 | 038-974-075 | 038-975-075 | 10 |
| 8.0 | 038-971-080 | 038-972-080 | 038-973-080 | 038-974-080 | 038-975-080 | 10 |
| 8.5 | 038-971-085 | 038-972-085 | 038-973-085 | | 038-975-085 | 10 |
| 9.0 | 038-971-090 | 038-972-090 | 038-973-090 | | 038-975-090 | 10 |
| 9.5 | 038-971-095 | | | | | 10 |
| 10.0 | 038-971-100 | | | | | 10 |
| 10.5 | 038-971-105 | | | | | 10 |
| 11.0 | 038-971-110 | | | | | 10 |

# Endotracheal Tubes - Standard (Low Pressure Cuff)

The Standard Range of Low Pressure Endotracheal tubes are designed for short-term intubation. The cuff size and shape make the Standard Low Pressure Endotracheal tube ideal for emergency intubation, as the slim-line shape facilitates quick and easy intubation to maintain an open airway.

### Pilot Balloon
The tube size, batch number and an outline of the cuff type are shown on the pilot balloon to provide easy identification.




### Depth Guide
The double line guide facilitates accurate cuff placement below vocal cord.

### Kink Resistant
Ensures tube patency for patient safety, whilst softening at body temperature to conform to the patient's respiratory tract.

### High Resolution Radiopaque Line
Guarantees easy and accurate identification of tube position and location during x-ray.

| SIZE ID (mm) | ORAL/NASAL | CURVED (Oral) | CURVED (Nasal) | PACK SIZE |
|---|---|---|---|---|
| 5.0 | 038-981-050 | 038-982-050 | 038-984-050 | 10 |
| 5.5 | 038-981-055 | 038-982-055 | 038-984-055 | 10 |
| 6.0 | 038-981-060 | 038-982-060 | 038-984-060 | 10 |
| 6.5 | 038-981-065 | 038-982-065 | 038-984-065 | 10 |
| 7.0 | 038-981-070 | 038-982-070 | 038-984-070 | 10 |
| 7.5 | 038-981-075 | 038-982-075 | 038-984-075 | 10 |
| 8.0 | 038-981-080 | 038-982-080 | 038-984-080 | 10 |
| 8.5 | 038-981-085 | 038-982-085 | | 10 |
| 9.0 | 038-981-090 | | | 10 |
| 9.5 | 038-981-095 | | | 10 |
| 10.0 | 038-981-100 | | | 10 |
| 10.5 | 038-981-105 | | | 10 |
| 11.0 | 038-981-110 | | | 10 |

### Jaw Opener
To be used with an ET Tube when the patient has 'Teeth Clench'.

### ET Tube Holder
Our ET tube holder is compatible with all sizes of ET Tube.

| | | |
|---|---|---|
| 038-96-001 | ET Tube Holder | 10 |
| 038-96-006 | Jaw Opener | 10 |

# Nasopharyngeal Airways

NasoSafe is an innovative Nasopharyngeal Airway. The swivel safety grip eliminates the risk of the airway from travelling down the nasal passage whilst providing maximum comfort for the patient.

NasoSafe®

## Patient Comfort
The swivel grip allows for positioning of the airway in the most comfortable position. The safety grip can be rotated through 360° to place the airway in the most convenient position without blocking the free nostril. The extended lip of the safety grip prevents the airway being sucked in while in situ.

## Allows Access
NasoSafe is ideal when the oral passage is not accessible. It also allows for nasotracheal suctioning.

## Better Tolerance
NasoSafe is better tolerated by patients than oropharyngeal airways.

## Swivel Safety Grip
The NasoSafe swivel grip protects the nasopharyngeal airway from loss in the nasal passage.

## Reduced Risk of Injury During Intubations
The rounded edge of the tip combined with the angle cut design helps to reduce the risk of injury during intubation.

## Reduced Risk of Patient Reaction
NasoSafe is made of medical grade PVC and is implant tested.

NasoSafe® is best inserted when the patient is in the supine position. The airway should be lubricated with a water soluble lubricant prior to insertion. The rounded bevelled tip reduces mucosal wall trauma and guides the airway along the floor of the nasal passage. When correctly in place the tip of the airway should be visible behind the uvula.

4.0mm ID | 5.0mm ID | 6.0mm ID | 7.0mm ID | 8.0mm ID | 9.0mm ID

## Size Colour Coding
Available in 6 sizes with colour coded swivel grips, that co-ordinate with suction catheter sizes.

| | | | | |
|---|---|---|---|---|
| 038-96-004 | 4.0mm / 16fr ID | NasoSafe Dark Green | ● | 10 |
| 038-96-005 | 5.0mm / 20fr ID | NasoSafe Black | ● | 10 |
| 038-96-006 | 6.0mm / 24fr ID | NasoSafe Green | ● | 10 |
| 038-96-007 | 7.0mm / 28fr ID | NasoSafe Orange | ● | 10 |
| 038-96-008 | 8.0mm / 32fr ID | NasoSafe Dark Red | ● | 10 |
| 038-96-009 | 9.0mm / 36fr ID | NasoSafe Purple | ● | 10 |

NasoClear is a simple and effective airway adjunct designed for easy insertion and maximum patient compliance.

# NasoClear™

## In-built Safety
NasoClear has an integrated connector designed to prevent the tube from travelling down the nasal passage and removes the need to use a safety pin eliminating the risk of clinician or patient injury.

## Flared Nasal Opening
The large flared opening prevents the nasopharyngeal airway from physically travelling down the nasal passage but also allows for comfortable positioning without obstructing the other nostril.

## Size Identification
Clearly labelled sizing enables clinicians to choose the correct NasoClear for the patient.

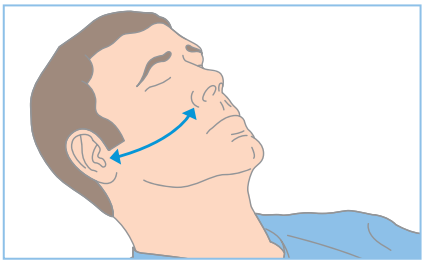
## Clear Construction
Provides visual confirmation before insertion that there are no blockages.

## Reduced Risk of Patient Reaction
NasoClear is made of medical grade PVC and is implant tested.

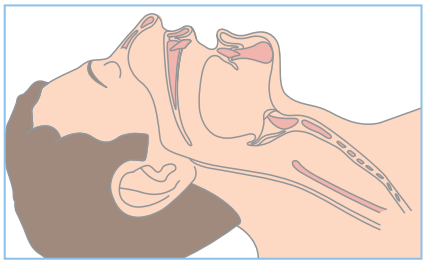
## Allows Access
Ideal when the oral passage is not accessible. It also allows for nasotracheal suctioning.

## Patient Comfort
NasoClear is better tolerated by awake patients than oropharyngeal airways.

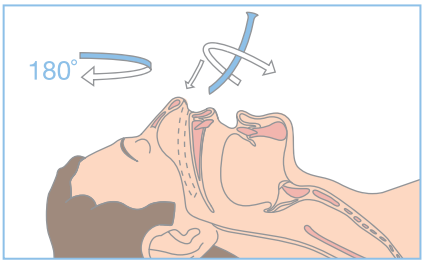
## Reduced Risk of Injury During Intubations
Rounded bevelled tip reduces mucosal wall trauma and guides the airway along the floor of the nasal passage.



The length of the nasal airway can be estimated by the distance from the patients nostril to the earlobe, or the angle of the jaw.



The nasal airway is best inserted when the patient is in the supine position. The airway should be lubricated with a water soluble lubricant prior to insertion.




Insert with the curve facing the opposing direction and follow the nasal passage whilst turning the nasopharyngeal airway through 180°

| | | | |
|---|---|---|---|
| 038-96-004C | 4.0mm / 16fr ID | NasoClear – Nasopharyngeal Airway | 10 |
| 038-96-005C | 5.0mm / 20fr ID | NasoClear – Nasopharyngeal Airway | 10 |
| 038-96-006C | 6.0mm / 24fr ID | NasoClear – Nasopharyngeal Airway | 10 |
| 038-96-007C | 7.0mm / 28fr ID | NasoClear – Nasopharyngeal Airway | 10 |
| 038-96-008C | 8.0mm / 32fr ID | NasoClear – Nasopharyngeal Airway | 10 |
| 038-96-009C | 9.0mm / 36fr ID | NasoClear – Nasopharyngeal Airway | 10 |

# Guedel Airways

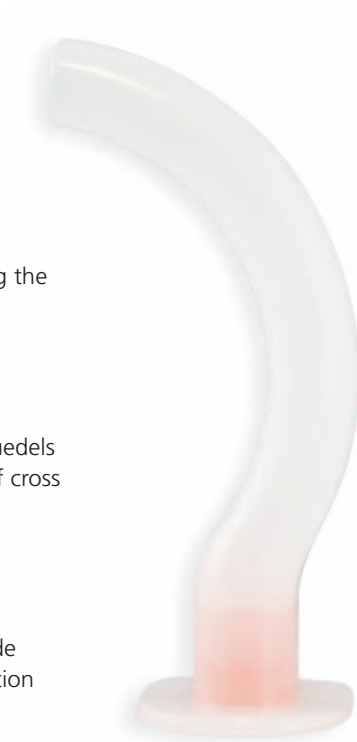
Flexicare has a full range of guedel airways with colour coded bite blocks, our guedel airways provide free air flow whilst protecting the airway from occlusion.

### Integrated Bite Block
Prevents the patient from biting down and occluding airway.

### Smooth bevelled tip
Allows for easy insertion and minimising the risk of causing patient trauma.

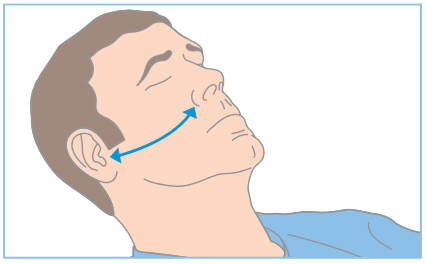
### Sterile
The individually packaged single use guedels are supplied sterile to reduce the risk of cross infection.

### Guedel Packs
Airway packs are available which include all sizes of Guedels. Great for resuscitation and difficult intubation. All guedels are individually packed.

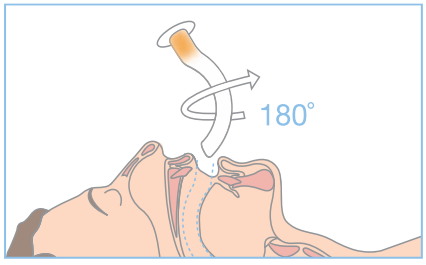


### Colour Coded Bite Block
Provides easy identification of the required sized as per internationally accepted guidelines

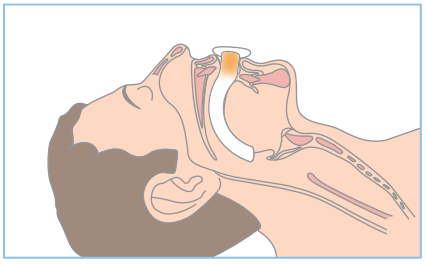
### Embossed Size
Easy identification of size even if the user is unfamiliar with colour coding.



The length of the Guedel airway can be estimated by the distance from the patients nostril to the earlobe, or the angle of the jaw.




The Guedel airway is best inserted when the patient is in the supine position. Prior to insertion the airway should be lubricated with a water soluble lubricant.



Insert with the curve facing the opposing direction and follow the airway whilst turning the Guedel airway through 180°.

| | | | |
|---|---|---|---|
| 038-93-900 | Guedel Airway Size 000 without Bite Block | | 50 |
| 038-92-902 | Guedel Airway Size 00 with Blue Bite Block | | 50 |
| 038-92-900 | Guedel Airway Size 0 with Black Bite Block | | 50 |
| 038-91-910 | Guedel Airway Size 1 with White Bite Block | | 50 |
| 038-91-920 | Guedel Airway Size 2 with Green Bite Block | | 50 |
| 038-91-930 | Guedel Airway Size 3 with Orange Bite Block | | 50 |
| 038-91-940 | Guedel Airway Size 4 with Red Bite Block | | 50 |

# Recommended Reading

## LarySeal


1. Scheidegger D.
Tutorial on emergency medicine and trauma. Emergency aspects of difficult airway management in ARDS. The 'difficult' intubation & tips and tricks. Program and abstracts of the 15th Annual Congress of the European Society of Intensive Care Medicine; September 29 - October 2, 2002. Barcelona. Spain

2. Fisher MM, Raper RF.
The 'cuff-leak' test for extubation.
Anaesthesia 1992;47(1):10-12

3. Gmec.S.
Comparison of three different methods to confirm tracheal tube placement in emergency intubation.
Intensive Care Med. 2002:28.701 - 704

4. Salem MR.
Verification of endotracheal tube position.
Anesthesiol Clin North Am. 2001: 2001; 19:813-839

5. de lassence A, Alberti C, Azoulay E, et al.
Impact of unplanned extubation and reintubation after weaning on nosocomial pneumonia risk in the intensive care unit; a prospective multicenter study.
Anaesthesiology. 2002; 97:148-156

6. Shapiro M, Wilson RK, Casar G, Bloom K, Teague RB.
Work of breathing through different sized endotracheal tubes.
Crit Care Med 1986, 14:1028-1031 (PubMed Abstract)

7. Christie JM Dethlefsen M, Cane RD.
Unplanned endotracheal extubation in the intensive care unit.
J Clin Anesth. 1996 8.289-293

8. Cohen I, Weinberg PF, Fein A, Rowinski GS.
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Crit Care Med 1988,16:277-279

9. Stauffer JL, Silvestri RE.
Complications of endotracheal intubation, tracheostomy and artificial airways. Respir Care 1982,27.417-434

10. Extubation criteria after weaning from intermittent mandatory ventilation and continuous positive airway pressure.

11. Use of Laryngeal Mask Airway in Children with Upper Respiratory Tract Infections: A Comparison with Endotintubation. Anesth Anaig 86:706-711.1998

12. Villaafane MC, Cinella G, Lofaso F, et al.
Gradual reduction of endotracheal tube diameter during mechanical ventilation via different humidification devices.
Anaesthesiology, 1996;85:1341-9

13. Dr. med. Thomas Castner
Practical Test – Flexicare LarySeal™ Multiple Laryngeal Mask vs. LMA Classic Institute for emergency medical aid. (Institut für Notfallmedizin – Neuer Breitengrad – Internationale Medizinische Dienste & Consulting)


## Laryngoscopes


1. J R Hall.
'Blood contamination of equipment'.
Anaesthesia and Analgesia 1994; 78: 1136-9

2. S.J Twigg, B. McCormack & T.M.
Cook Randomized Evaluation of the Performance of Single Use Laryngoscopes in Simulated easy and difficult Intubation.
Br. J Anaesth Jan 2003;90:8-13

3. MD Ester. L C Baines. D J Wilkinson and R M Langford.
'Decontamination of Laryngoscopes: a survey of national practice'.
Anaesthesia, 1999-54

# ANAESTHESIA

## Adult, Argentic and Paediatric Anaesthesia Circuits

Our range of Breathing Systems include Standard Parallel Circuits, Bain Circuits, Paediatric Circuits and Custom Made Circuits. Ventiflow™ is the complete system for low flow anaesthesia, with options for monitoring line and APL valve.

### Adult Anaesthetic Circuits


Introduction 38
Mapleson Circuits 40
Basic Parallel Circuits 43
Basic Smooth Bore Circuits 45
Ventiflow Systems 46
Entonox Systems 48


### Paediatric Anaesthesia Circuits


Basic Parallel Circuits 50
Smooth Bore Circuits 50
Mapleson Circuits 51

# General Anaesthesia

General Anaesthesia is usually obtained by a preliminary intravenous injection of a sleep inducing agent which will render the patient unconscious within a relatively short period of time, during which the patient will be induced using a gaseous mixture of Oxygen, Nitrous Oxide and an anaesthetic agent to maintain unconsciousness.

## Essential Requirements of a Breathing System

The most important criteria that a Breathing System must satisfy is that it delivers the intended inspired gaseous mixture from the machine to the alveoli. The fresh gas flow (FGF) rate required to prevent rebreathing of alveolar gas is a measure of the efficiency of a breathing system. It must also effectively dispose of exhaled waste gases. Two other aspects that effect the patient directly is the amount of resistance there is within the system and the amount of dead space that is added by the system.

## Components of a Breathing System

There are several components used in the construction of an anaesthetic breathing system:

1. A fresh gas entry port in the form of a delivery tube.
2. Carbon Dioxide Absorbent (only used in Rebreathing system).
3. APL Valve.
4. Reservoir Bag.

The tubing used in the circuits are either made of corrugated tubing or smooth bore tubing. The design of Flexicare corrugated tubing is such that it aids in flexibility and prevents kinking and occlusion. The height of the corrugations are minimal so that there is minimum air disruption, and it also captures water vapour which occurs naturally during expiration.

Smooth bore tubing is as its name suggests and is completely smooth on the inside. Some Anaesthetists argue that these tubes eliminate air turbulence and thus perform better enabling lower FGF than with corrugated tubing. Smooth bore tubing has an integral spiral running the entire length of the tube to help reduce the risk of kinking and occlusion.

## All our breathing circuits have the following features:

### Easy to Manage

The parallel Y piece allows for greater control. The double walled, 22mm M /15mmF patient end connection allows for ease of fitting to Catheter Mounts, ET Tubes, Laryngeal Masks, Face Masks or Elbows. A swivel Y piece on selected circuits facilitates the most convenient position during anaesthesia and the improved design provides for optimum flow with minimal resistance.

### Crush Resistant

Flexicare has a full range of corrugated tubing in 22mm, 15mm and 10mm made of a flexible co-polymer provides elasticity within the tube which will resist crushing. Flow will be maintained even when twisted through 180°. The lightweight system minimises 'Drag' and pressure on the patient. The shallow tube corrugations minimise flow resistance and turbulence, ensuring the required flow rate is maintained.

### Easy and Secure Fitting

22mm F serrated connectors provides a secure fit to the machine. The soft, lightweight and flexible material ensures a secure seal while still allowing ease of connection and disconnection.

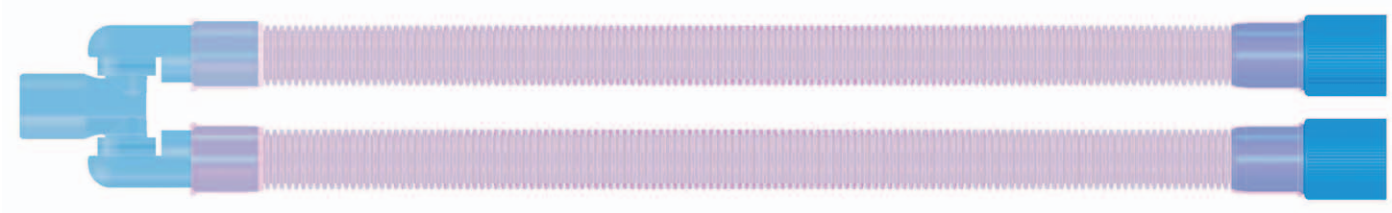
### Sterile Circuits

We have a number of circuits available as sterile, for further information on our sterile circuits and accessories please contact us.

## Argentic Systems

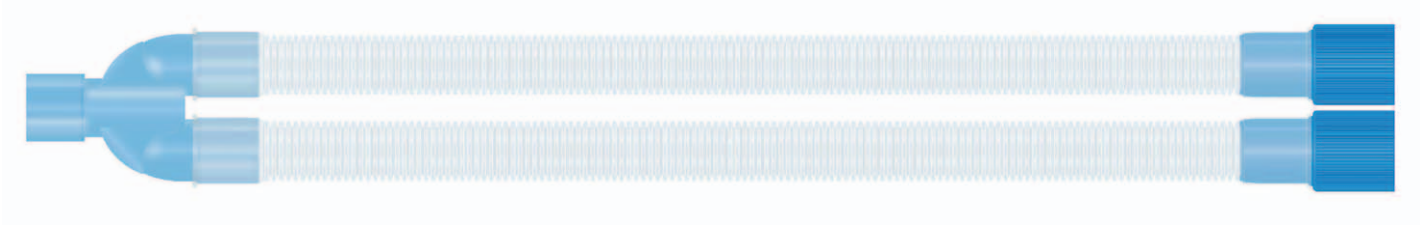
Argentic is a range of anti-microbial breathing systems to combat microbial contamination within the clinical setting and reducing the risk of Hospital Acquired Infections (HAI). Argentic breathing systems are impregnated with a silver ion additive which rapidly reduces the number of bacterium when oxygen in the ambient air comes into contact with silver particles and creates a catalytic reaction which helps to inactivate the microbes.

Throughout this catalogue Argentic products are identified with this symbol: Ag



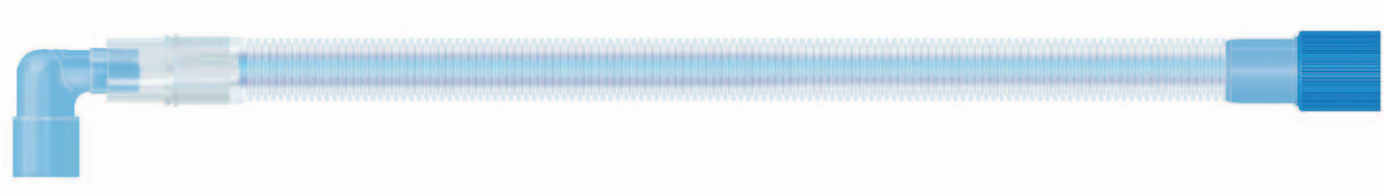
## Circular (Closed) Systems

A wide range of Venticaire anaesthetic breathing systems are offered to match your specific requirements. All systems are supplied with one spare 22mm male connector, allowing for most connection configurations.



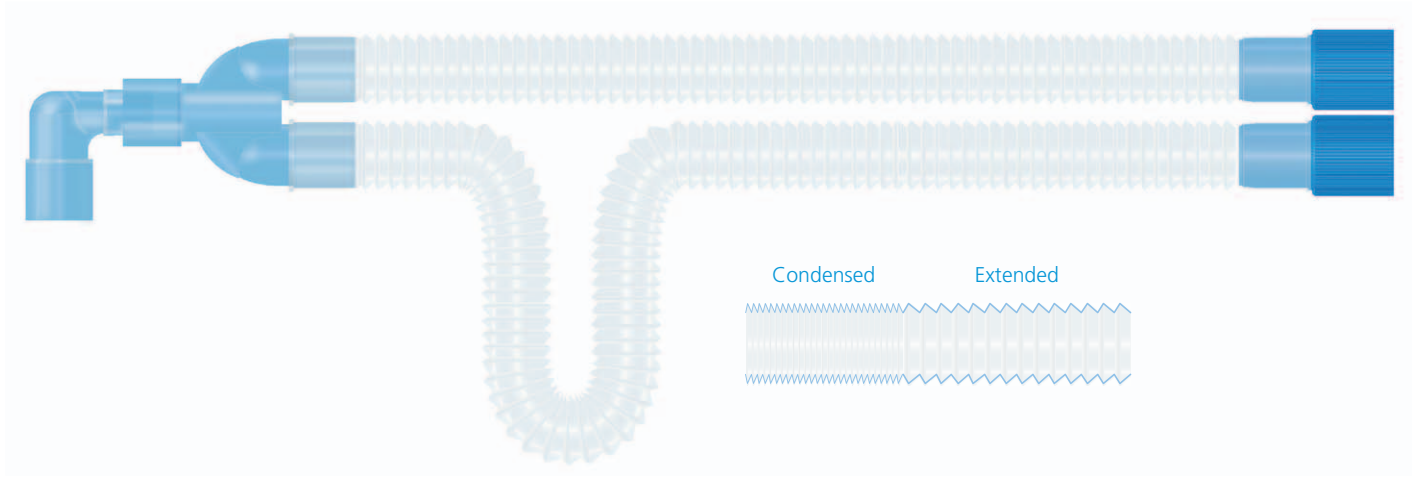
## Bain Systems

The Bain Circuit uses a high fresh gas flow to deliver anaesthetic gases to the patient and to wash out the exhaled $CO_2$.
The construction of the Bain Circuit uses an inner tube which delivers fresh gases to the patient and an outer corrugated tube that transports the exhaled gases. This system ensures there is no Rebreathing of the exhaled gases when the correct flow rate is set, this is dependent on the patient's minute ventilation.



## Flexi-Lock Systems

An expandable circuit which allows for greater flexibility within the operating room or when patients are being transported.
The circuit can be expanded to the desired length and curved into a specific position without the need to tie down the circuit.

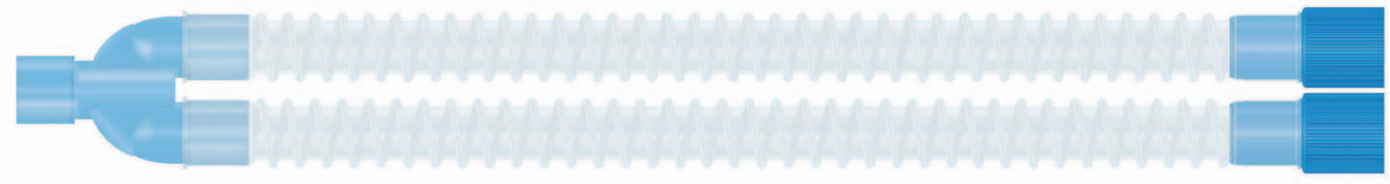



## Smooth Bore Circle Systems

The smooth bore tube allows flow of gases with less resistance and reduced turbulence that can be associated with some corrugated tubing circuits.

Kink Resistant - The spiral outer casing of the tube is designed to maintain patency of the inner lumen, ensuring flow of fresh gas.

Easy and Secure Fitting - 22mm F flexible connectors provide a secure fitting to the machine.

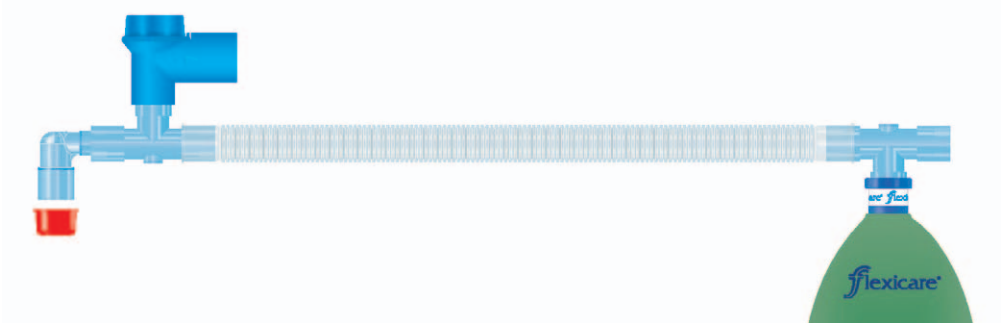


# Mapleson Circuits

## Mapleson A - (Magill, Parallel Lack and Coaxial Lack)

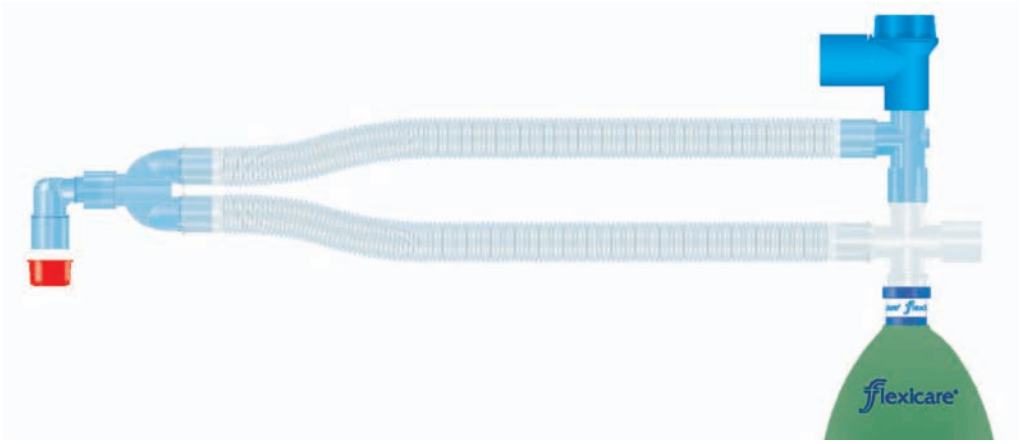
This system consists of a reservoir bag close to the fresh gas outlet with the APL valve placed at the patient end (Magill A, or expiratory limb-Parallel Lack). During inspiration, as the patient's inspiratory flow is greater than the Fresh Gas Flow, additional gasses will be drawn out from the reservoir bag. During the expiratory phase, exhaled gases will force the fresh gas back into the circuit and resservoir bag. In the expiratory phase, exhaled gases will force the fresh breathing system and thus forcing the exhaled gasses to escape through the APL valve (scavenging port). The system requires a low flow (0.8-1 times of Minute Volume, approximately 6-8 litres/minute) during spontaneous respiration to prevent Rebreathing. This system is not recommended for intermittent positive pressure ventilation. (IPPV)

### Magill System




| | | | |
|---|---|---|---|
| 038-01-256 | Mapleson A Magill System (1.6m)<br>22mm lightweight corrugated tube with 2L Reservoir Bag and Adult APL Valve | | 20 |
| 038-01-256Ag | As above with Argentic Tubing | Ag | 20 |

### Parallel Lack




| | | | |
|---|---|---|---|
| 038-01-257 | Mapleson A Parallel Lack System (1.6m)<br>22mm lightweight corrugated tubes with 2L Reservoir Bag and Adult APL Valve | | 20 |
| 038-01-257Ag | As above with Argentic Tubing | Ag | 20 |

## Mapleson C - (Waters Bag, Bagging System - Adult, Direct and Paediatric and Resuscitation Bag).

This system is similar to Mapleson B, however, the bag is positioned very close to the patient. This system is used for manual ventilation during resuscitation. A flow rate of 1.5-2 times of the minute volume is required to avoid Rebreathing.

### Adult Bagging System

| | | | |
|---|---|---|---|
| 038-01-255 | Mapleson C Bagging System (1.6m)<br>10mm lightweight corrugated tube with 2L Reservoir Bag<br>and Adult APL Valve + 15F/6-9mm adaptor | | 20 |
| 038-01-255Ag | As above with Argentic Tubing | Ag | 20 |
| 038-01-258 | Mapleson C Bagging System (2.1m)<br>Star Lumen tube with 2L Reservoir Bag<br>and Adult APL Valve + 22mm Female adapter | | 20 |
| 038-01-258Ag | As above with Argentic Tubing | Ag | 20 |

## Mapleson D

### Coaxial Bain

This system is mainly used with ventilated respiration. The Fresh Gas Flow is close to the patient and the APL valve is placed away from the patient. The risk of Rebreathing in this circuit is high especially in patients who have a short expiratory pause or do not have an expiratory pause (infants). To overcome this problem a high FGF of 2 - 4 times of the patient's Minute Volume is required to prevent all Rebreathing. In practice some rebreathing is tolerated and in an adult FGF of 6 - 7 litres/minute will maintain a normal arterial $CO_2$ tension.

### Bain Systems

| | | | |
|---|---|---|---|
| 038-01-251 | Mapleson D Bain System (1.6m)<br>22mm lightweight corrugated tube with 2L Reservoir Bag and Adult APL Valve | | 20 |
| 038-01-251Ag | As above with Argentic Tubing | Ag | 20 |
| 038-01-253 | Mapleson D Bain System (2.4m)<br>22mm lightweight corrugated tube with 2L Reservoir Bag and Adult APL Valve | | 20 |
| 038-01-253Ag | As above with Argentic Tubing | Ag | 20 |
| 038-01-254 | Mapleson D Bain System (5.4m)<br>22mm lightweight corrugated tube with 2L Reservoir Bag and Adult APL Valve | | 10 |
| 038-01-254Ag | As above with Argentic Tubing | Ag | 10 |

## Ventiflow Inner Lumen Tester

Every Ventiflow Bain Breathing System is supplied with an inner lumen patency tester. The tester is a purpose designed and built tester which facilitates testing of the inner lumen. When setting up the breathing system on the anaesthetic machine or ventilator, many machine's can automatically test the circuit for leaks when the patient end connector is connected to the machine also. An overall leak (or loss of pressure) can be detected but it is not possible to test the patency of each tube individually. The inner lumen tester will allow this. After checking the circuit in the normal way, insert the inner lumen tester down the patient end connector so as to block the end of the fresh gas inner tube. Perform the test again and this time only the fresh gas inner tube will be tested. This way you can be certain there is no leak of fresh gas into the expiratory tube.

## Basic Bain Coaxial System 1.6m

| | | | |
|---|---|---|---|
| 038-01-200 | Basic Bain Coaxial System (1.6m)<br>22mm lightweight, flexible corrugated tube with 22mm M swivel connector<br>+ low profile elbow | | 20 |
| 038-01-200Ag | As above with Argentic Tubing | Ag | 20 |

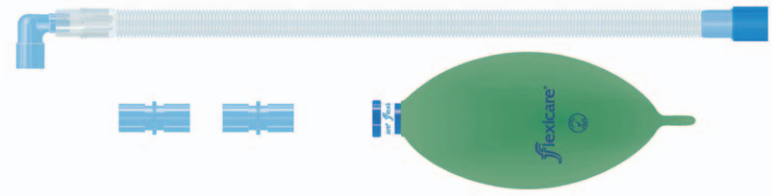
## Basic Bain Coaxial System 2.4m

| | | | |
|---|---|---|---|
| 038-01-210 | Basic Bain Coaxial System (2.4m)<br>22mm lightweight, flexible corrugated tube with 22mm M swivel connector<br>+ low profile elbow | | 20 |
| 038-01-210Ag | As above with Argentic Tubing | Ag | 20 |

## Basic Bain Coaxial System 1.6m

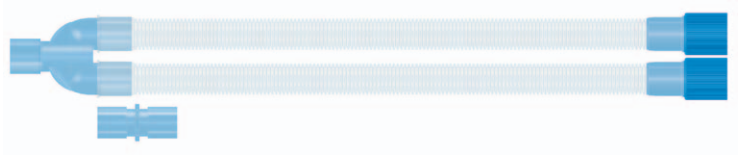
| | | | |
|---|---|---|---|
| 038-01-201 | Basic Bain Coaxial System (1.6m)<br>22mm lightweight, low compliance corrugated tube with 22mm M swivel connector<br>+ low profile elbow | | 20 |
| 038-01-201Ag | As above with Argentic Tubing | Ag | 20 |

## Basic Bain Coaxial System 1.6m



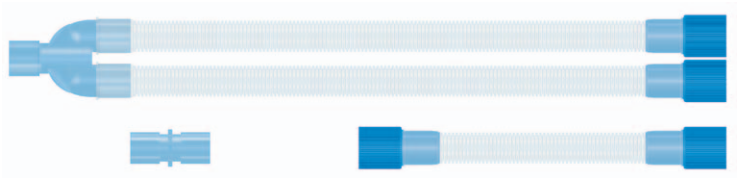

| | | | |
|---|---|---|---|
| 038-01-200B | Basic Bain Coaxial System (1.6m)<br>22mm lightweight, flexible corrugated tube with 22mm M / 15mm F swivel connector<br>+ 2L Reservoir Bag + low profile elbow + two spare M/M connectors | | 20 |
| 038-01-200BAg | As above with Argentic Tubing | Ag | 20 |

## Basic Parallel



| | | | |
|---|---|---|---|
| 038-01-100 | Basic Parallel (1.6m)<br>22mm lightweight, extra flexible corrugated tube with parallel Y piece and 22mm F connectors + spare M/M connector | | 20 |
| 038-01-100Ag | As above with Argentic Tubing | Ag | 20 |
| 038-01-105 | Basic Parallel (2.4m)<br>22mm lightweight, extra flexible corrugated tube with parallel Y piece and 22mm F connectors + spare M/M connector | | 20 |
| 038-01-105Ag | As above with Argentic Tubing | Ag | 20 |

## Basic Parallel with Limb

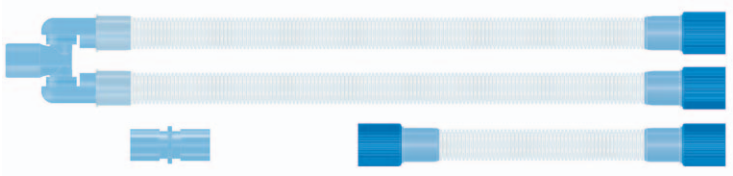


| | | | |
|---|---|---|---|
| 038-01-120 | Basic Parallel (1.6m) with limb<br>22mm lightweight, extra flexible corrugated tube with parallel Y piece and 22mm F connectors + 0.8m F/F limb + spare M/M connector | | 20 |
| 038-01-120Ag | As above with Argentic Tubing | Ag | 20 |
| 038-01-125 | Basic Parallel (2.4m) with limb<br>22mm lightweight, extra flexible corrugated tube with parallel Y piece and 22mm F connectors + 0.8m F/F limb + spare M/M connector | | 20 |
| 038-01-125Ag | As above with Argentic Tubing | Ag | 20 |

## Basic Parallel with Swivel Y

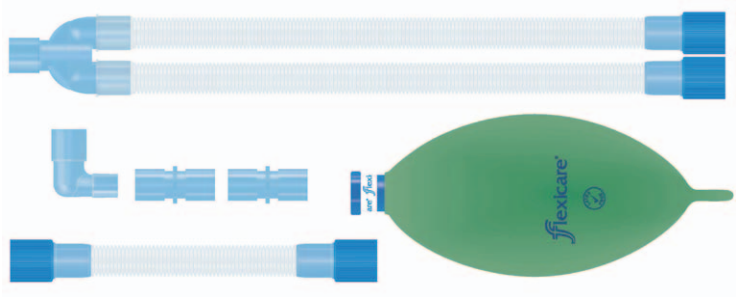
| | | | |
|---|---|---|---|
| 038-01-102 | Basic Parallel with Swivel Y (1.6m)<br>22mm lightweight, extra flexible corrugated tube with Swivel Y piece and 22mm F connectors + spare M/M connector | | 20 |
| 038-01-102Ag | As above with Argentic Tubing | Ag | 20 |
| 038-01-103 | Basic Parallel with Swivel Y (2.4m)<br>22mm lightweight, extra flexible corrugated tube with Swivel Y piece and 22mm F connectors + spare M/M connector | | 20 |
| 038-01-103Ag | As above with Argentic Tubing | Ag | 20 |

## Basic Parallel with Swivel Y and Limb



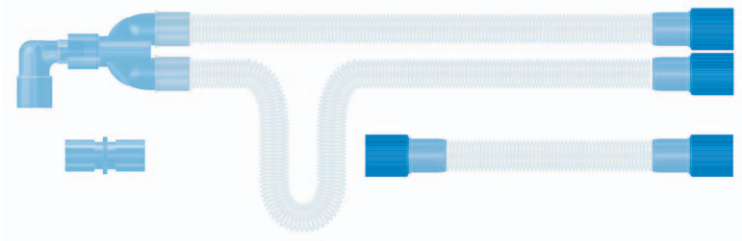
| | | | |
|---|---|---|---|
| 038-01-122 | Basic Parallel (1.6m) with Swivel Y + limb<br>22mm lightweight, extra flexible corrugated tube with Swivel Y piece<br>and 22mm F connectors + 0.8m F/F limb + spare M/M connector | | 20 |
| 038-01-122Ag | As above with Argentic Tubing | Ag | 20 |

## Basic Parallel with Limb, Elbow Reservoir Bag and Connectors




| | | | |
|---|---|---|---|
| 038-01-110 | Basic Parallel (1.6m)<br>22mm lightweight, extra flexible corrugated tube with parallel Y piece<br>and 22mm F connectors + 0.8m F/F limb + Low Profile Elbow<br>+ 2L Reservoir Bag + spare M/M connector | | 20 |
| 038-01-110Ag | As above with Argentic Tubing | Ag | 20 |
| 038-01-110/701 | Basic Parallel (1.6m) with Gas Sampling Line<br>22mm lightweight, extra flexible corrugated tube with parallel Y piece<br>and 22mm F connectors + 0.8m F/F limb + Low Profile Elbow<br>+ 2L Reservoir Bag + spare M/M connector | | 20 |
| 038-01-110LXXY | Basic Parallel (4.5m)<br>22mm lightweight, extra flexible corrugated tube with parallel Y piece<br>and 22mm F connectors + 1.6m F/F limb + Low Profile Elbow<br>+ 2L Reservoir Bag + spare M/M connector | | 10 |

## Flexi-Lock Parallel



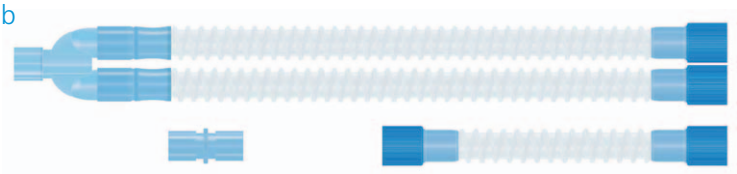
| | | | |
|---|---|---|---|
| 038-01-106 | Flexi-Lock Parallel (1.6m)<br>Flexible expandable tube with parallel Y piece<br>and 22mm F connectors + 0.8m F/F limb + spare M/M connector + Low Profile Elbow | | 20 |
| 038-01-106Ag | As above with Argentic Tubing | Ag | 20 |

# Adult Anaesthetic Systems

## Basic Smooth Bore

| | | |
|---|---|---|
| 038-01-104 | Adult Smooth Bore Circuit (1.6m)<br>22mm lightweight smooth bore tubing with parallel Y piece<br>and flexible 22mm F connectors + spare 22mm M/M connector | 20 |
| 038-01-107 | Adult Smooth Bore Circuit (2.4m)<br>22mm lightweight smooth bore tubing with parallel Y piece<br>and flexible 22mm F connectors + spare 22mm M/M connector | 20 |

## Basic Smooth Bore with Limb



| | | |
|---|---|---|
| 038-01-124 | Adult Smooth Bore Circuit (1.6m)<br>22mm lightweight smooth bore tubing with parallel Y piece<br>and flexible 22mm F connectors + 0.8m F/F limb + spare 22mm M/M connector | 20 |
| 038-01-127 | Adult Smooth Bore Circuit with limb (2.4m)<br>22mm lightweight smooth bore tubing with parallel Y piece<br>and flexible 22mm F connectors + 0.8m F/F limb + spare 22mm M/M connector | 20 |

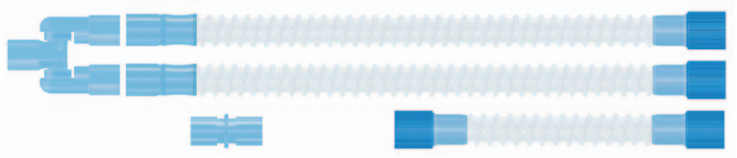
## Basic Smooth Bore and Detachable Y piece

| | | |
|---|---|---|
| 038-01-108 | Adult Smooth Bore Circuit (1.6m)<br>22mm lightweight smooth bore tubing with detachable parallel Y piece<br>and flexible 22mm F connectors + spare 22mm M/M connector | 20 |
| 038-01-109 | Adult Smooth Bore Circuit (2.4m)<br>22mm lightweight smooth bore tubing with detachable parallel Y piece<br>and flexible 22mm F connectors + spare 22mm M/M connector | 20 |

## Basic Smooth Bore with Limb and Detachable Y piece

| | | |
|---|---|---|
| 038-01-128 | Adult Smooth Bore Circuit (1.6m) with limb<br>22mm lightweight smooth bore tubing with detachable parallel Y piece<br>and flexible 22mm F connectors + 0.8m F/F limb + spare 22mm M/M connector | 20 |
| 038-01-129 | Adult Smooth Bore Circuit (2.4m) with limb<br>22mm lightweight smooth bore tubing with detachable parallel Y piece<br>and flexible 22mm F connectors + 0.8m F/F limb + spare 22mm M/M connector | 20 |

## Basic Smooth Bore with Detachable Swivel Y



| | | |
|---|---|---|
| 038-01-123 | Adult Smooth Bore Circuit (1.6m) with limb<br>22mm lightweight smooth bore tubing with detachable parallel swivel Y piece<br>and flexible 22mm F connectors + 0.8m F/F limb + spare 22mm M/M connector | 20 |

## Ventiflow Systems

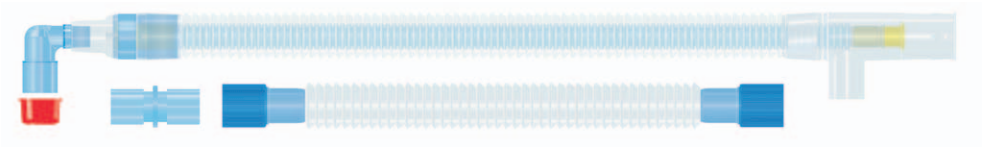
Ventiflow is a coaxial (two tubes in one) breathing system ideal for use within both theatres and ICU and is well suited to low flow anaesthesia and both spontaneous and ventilated patients. Ventiflow may be used in either the open or closed configuration and as such it offers incredible flexibility. All components are included with the circuit to set up in either way. Ventiflow is available in over ten variations with the options of both with and without APL valve, with integral monitoring line (no trailing sample lines from patient to monitor) and lengths of up to 3.2 for specialist applications.

Patient Monitoring - Optional integral monitoring line collects end tidal CO2 from the tip of the patient end connector. This provides for accurate gas sampling, whilst the integrated line prevents the possibility of becoming caught and promotes an uncluttered working environment.

Swivel Patient End Connector - Reduces the risk of the circuit and optional integrated monitoring line becoming twisted. This minimises patient drag and the risks of disconnection of the circuit from the anaesthetic machine or ventilator.

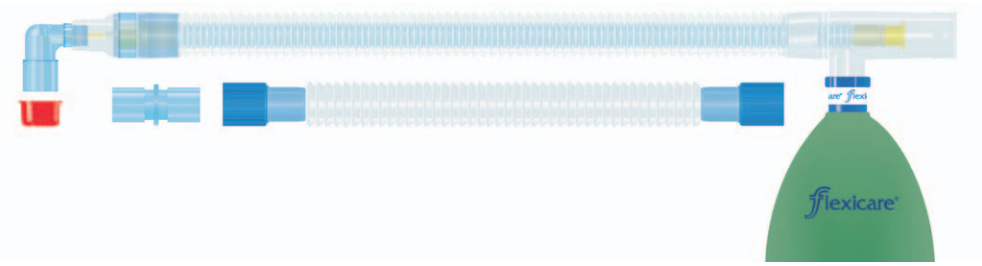
Supplied with Inner Lumen Test Key - Allows for the isolation of the fresh gas tube to leak test the circuit.

## Ventiflow



| | | | |
|---|---|---|---|
| 038-01-500 | Ventiflow (1.6m)<br>Circuit with Flexi-lock expandable limb + spare 22mm M/M connector + Elbow | | 20 |
| 038-01-500Ag | As above with Argentic Tubing | Ag | 20 |
| 038-01-505 | Ventiflow (2.4m)<br>Circuit with Flexi-lock expandable limb + spare 22mm M/M connector + Elbow | | 20 |
| 038-01-505Ag | As above with Argentic Tubing | Ag | 20 |

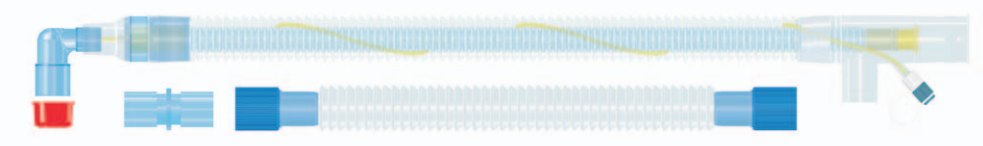
## Ventiflow Basic




| | | | |
|---|---|---|---|
| 038-01-501 | Ventiflow Basic (1.6m)<br>Circuit with 2L Reservoir Bag,<br>Flexi-lock expandable limb + spare 22mm M/M connector + Elbow | | 20 |
| 038-01-501Ag | As above with Argentic Tubing | Ag | 20 |
| 038-01-506 | Ventiflow Basic (2.4m)<br>Circuit with 2L Reservoir Bag,<br>Flexi-lock expandable limb + spare 22mm M/M connector + Elbow | | 20 |
| 038-01-506Ag | As above with Argentic Tubing | Ag | 20 |

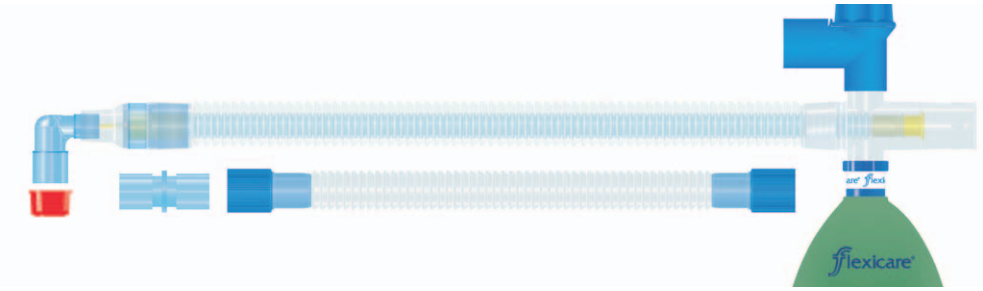
# Adult Anaesthetic Systems

## Ventiflow Standard



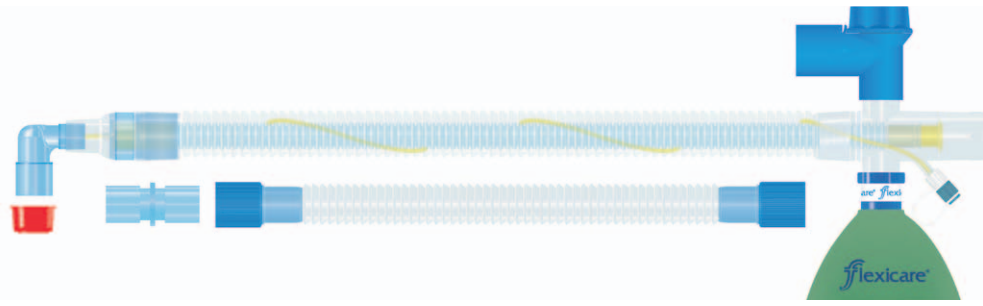
| | | | |
|---|---|---|---|
| 038-01-510 | Ventiflow Standard (1.6m)<br>Circuit with Monitoring Line,<br>Flexi-lock expandable limb + spare 22mm M/M connector + Elbow | | 20 |
| 038-01-510Ag | As above with Argentic Tubing | Ag | 20 |
| 038-01-515 | Ventiflow Standard (2.4m)<br>Circuit with Monitoring Line,<br>Flexi-lock expandable limb + spare 22mm M/M connector + Elbow | | 20 |
| 038-01-515Ag | As above with Argentic Tubing | Ag | 20 |

## Ventiflow Plus




| | | | |
|---|---|---|---|
| 038-01-520 | Ventiflow Plus (1.6m)<br>Circuit with Adult APL Valve, 2L Reservoir Bag,<br>Flexi-lock expandable limb + spare 22mm M/M connector + Elbow | | 20 |
| 038-01-520Ag | As above with Argentic Tubing | Ag | 20 |
| 038-01-525 | Ventiflow Plus (2.4m)<br>Circuit with Adult APL Valve, 2L Reservoir Bag,<br>Flexi-lock expandable limb + spare 22mm M/M connector + Elbow | | 20 |
| 038-01-525Ag | As above with Argentic Tubing | Ag | 20 |

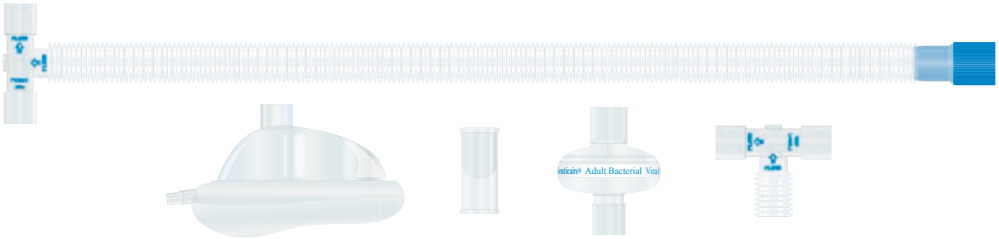
## Ventiflow Max




| | | | |
|---|---|---|---|
| 038-01-530 | Ventiflow Max (1.6m)<br>Circuit with Adult APL Valve, 2L Reservoir Bag, integral Monitoring Line<br>and Flexi-lock expandable limb + spare 22mm M/M connector + Elbow | | 20 |
| 038-01-530Ag | As above with Argentic Tubing | Ag | 20 |
| 038-01-535 | Ventiflow Max (2.4m)<br>Circuit with Adult APL Valve, 2L Reservoir Bag, integral Monitoring Line<br>and Flexi-lock expandable limb + spare 22mm M/M connector + Elbow | | 20 |
| 038-01-535Ag | As above with Argentic Tubing | Ag | 20 |

## Entonox Systems

Nitrous Oxide gases have been known to have sedative and analgesic effects for well over two hundred years. In the medical application Entonox is a gas comprising of equal parts of Nitrous Oxide and Oxygen, most commonly used during childbirth. The gas is administered via the entonox circuit and inhaled by the patient using either a face mask or a mouthpiece. An incorporated demand valve is regulated by the patients inspiration pattern allowing gases to be controlled and not lost to the ambient surroundings.



## Lightweight

22mm Corrugated tube will retain it's shape and resist crushing. Flow is still maintained even when twisted through 180°. The shallow corrugations minimise flow resistance and turbulence.

## Patient Choice

The entonox circuits are available for use with a mouthpiece or mask providing patient choice.

## Entonox T-Piece

The T-Piece incorporates 2 non-return valves to allow for inspired gases to be delivered through the system and prevent expired gases re-entering the circuit.

## Aeroplane Flow Indicator

The aeroplane flow indicator attaches to the one way valve to encourage young patients during emergency procedures.

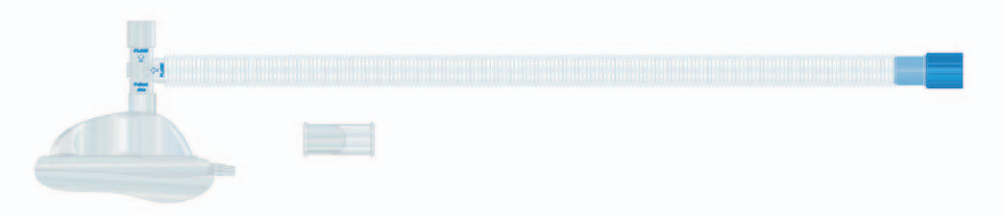
## Patient Controlled during child birth

Patients should inspire the Entonox gas as soon as a contraction begins. The level of pain control that is built up in the blood stream will reach maximum effectiveness between 45-50 seconds after patients begin breathing. Using Entonox gas does not prevent patients being given supplemental or alternative pain relief drugs.

## Entonox Circuit with Mouthpiece

| | | |
|---|---|---|
| 038-01-176 | Entonox Circuit with Mouth Piece (2.4m)<br>Low resistance corrugated tube<br>with 22mm F connector, one way valve and mouth piece | 20 |

## Entonox Circuit with Mask



| | | |
|---|---|---|
| 038-01-177 | Entonox Circuit with Mask (2.4m)<br>Low resistance 22mm corrugated tube<br>with 22mm F connector, one way valve and face mask | 20 |
| 038-01-178 | Entonox Circuit with Mouth Piece and Mask (2.4m)<br>Low resistance 22mm corrugated tube with 22mm F connector,<br>one way valve, mouth piece and face mask | 20 |

# Adult Anaesthetic Systems

## Entonox Circuit with Scavenging Tube

| | | |
|---|---|---|
| 038-01-173 | Entonox Circuit (2.4m)<br>Low resistance corrugated tube with 22mm F connector, one way valve, and detachable scavenging tube with connector | 20 |

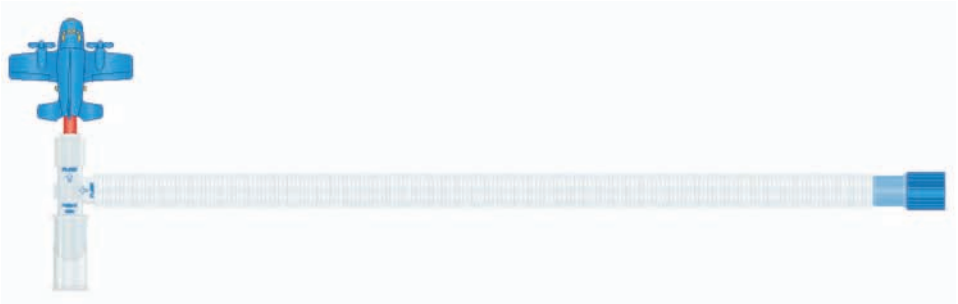
## Entonox Mouthpiece

| | | |
|---|---|---|
| 032-10-066 | Entonox Mouth Piece | 50 |

## Bacterial Viral Filter with Entonox Mouthpiece

| | | |
|---|---|---|
| 038-41-369 | Bacterial Viral Filter with Mouthpiece for Entonox | 50 |

## Paediatric Entonox Circuit with Aeroplane Flow Indicator



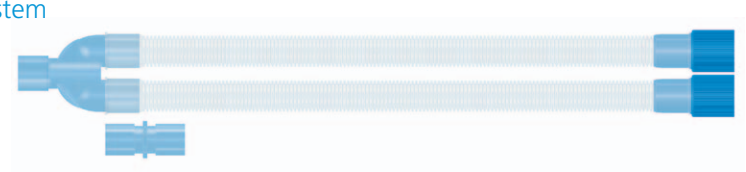
| | | |
|---|---|---|
| 038-01-175 | Entonox Circuit with Aeroplane Flow Indicator (2.4m)<br>Low resistance 22mm corrugated tube with 22mm F connector, one way valve with Aeroplane Indicator and mouth piece | 20 |

# Paediatric Anaesthesia Circuits

## Basic Parallel Circle System

| | | |
|---|---|---|
| 038-02-165 | Basic Parallel (1.6m)<br>Low resistance 15mm corrugated tube, parallel Y piece,<br>22mm F connectors + spare 22mm M/M connector | 20 |

## Flexi Lock Parallel Circle System



| | | |
|---|---|---|
| 038-02-180 | Flexi-Lock Parallel (1.8m)<br>Expandable 15mm corrugated tube, parallel Y piece,<br>22mm F connectors + spare 22mm M/M connector | 20 |

# Smooth Bore Systems

## Smooth Bore Circle System

| | | |
|---|---|---|
| 038-02-166 | Paediatric Smooth Bore Circuit (1.5m)<br>15mm lightweight smooth bore tubing with parallel Y piece<br>and flexible 22mm F connectors + spare 22mm M/M connector | 20 |

## Smooth Bore Circle System

| | | |
|---|---|---|
| 038-02-162 | Paediatric Smooth Bore Circuit (1.5m)<br>15mm lightweight smooth bore tubing with bifurcated Y piece with monitoring ports<br>and flexible 22mm F connectors + spare 22mm M/M connector | 20 |

## Smooth Bore Circle System with detachable Y Piece

| | | |
|---|---|---|
| 038-02-163 | Paediatric Smooth Bore Circuit (1.5m)<br>15mm lightweight smooth bore tubing with detachable Y piece<br>and flexible 22mm F connectors + spare 22mm M/M connector | 20 |

# Paediatric Anaesthesia Circuits

## Smooth Bore Circle System with Y Piece and monitoring ports

| | | |
|---|---|---|
| 038-02-164 | Paediatric Smooth Bore Circuit (1.5m)<br>15mm lightweight smooth bore tubing with low dead space Y piece +<br>Monitoring Ports and flexible 22mm F connectors + spare 22mm M/M connector | 20 |

## Mapleson C Systems

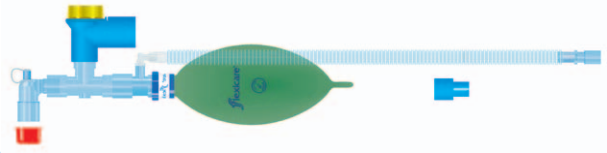
### Mapleson C Paediatric Direct Bagging System (1.6m)

| | | |
|---|---|---|
| 038-02-270 | Mapleson C Direct System (1.6m)<br>10mm corrugated tube with 0.5L reservoir bag and paediatric<br>APL valve with spare 15F/6-9mm connector | 20 |

### Mapleson C Paediatric Bagging System (1.6m)

| | | |
|---|---|---|
| 038-02-271 | Mapleson C Paediatric Bagging System (1.6m)<br>10mm corrugated tube with 0.5L reservoir bag and paediatric<br>APL valve with spare 15F/6-9mm connector | 20 |

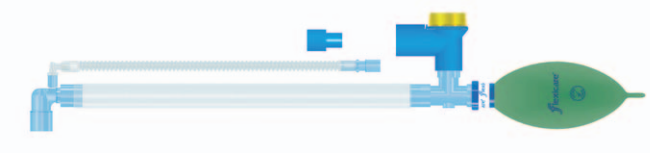
### Mapleson C Direct System (1.6m)



| | | |
|---|---|---|
| 038-02-272 | Mapleson C Direct System (1.6m)<br>10mm corrugated tube with 1L reservoir bag and paediatric<br>APL valve with spare 15F/6-9mm connector | 20 |

## Mapleson F Systems

### Mapleson F Ayres T-Piece with APL Valve (1.6m)



| | | |
|---|---|---|
| 038-02-273 | Mapleson F Ayres T-Piece with APL Valve (1.6m)<br>10mm corrugated tube fresh gas line with 15mm M connector and spare 15F/6-9mm flexible connector with 0.5L closed tail reservoir bag and paediatric APL valve | 20 |

### Mapleson F Infant T-Piece (1.6m)

| | | |
|---|---|---|
| 038-02-191 | Mapleson F Infant T-Piece (1.6m)<br>10mm corrugated tube fresh gas line with 15mm M connector and spare 15F/6-9mm flexible connector with 0.5L open tail reservoir bag | 20 |

### Mapleson F Ayres T-Piece (1.6m)

| | | |
|---|---|---|
| 038-02-196 | Mapleson F Ayres T-Piece (1.6m)<br>10mm corrugated tube, fresh gas line with 22mm F connector with 0.5L open tail reservoir bag and double swivel elbow | 20 |
| 038-02-196C | Mapleson F Ayres T-Piece (1.6m)<br>10mm corrugated tube, fresh gas line with 22mm F connector with 0.5L open tail reservoir bag and double swivel elbow + monitoring line | 20 |

### Mapleson F Infant T-Piece (2.1m)

| | | |
|---|---|---|
| 038-02-190 | Mapleson F Infant T-Piece (2.1m)<br>Star lumen tubing with 22mm F spare connector, 0.5L open tail reservoir bag | 20 |

### Mapleson F Ayres T-Piece (2.1m)

| | | |
|---|---|---|
| 038-02-195 | Mapleson F Ayres T-Piece (2.1m)<br>Star lumen tube with 22mm F spare connector, 0.5L open tail reservoir bag and double swivel elbow with elastomeric cap | 20 |

# ANAESTHESIA ACCESSORIES

## Catheter Mounts, Anaesthetic Face Masks, Soda Lime, Patient Connectors & Accessories

A full range of Scented Face Masks including: Pre-inflated (Lemon, Strawberry and Vanilla) and Reusable (Silicone). Ventisorb is a $C0_2$ absorbent, offering a high level of filtration. Available in Pink to White and White to Violet.

### Catheter Mounts

Standard 15mm Tubing 54
Flexi-Lock Tubing 56
Smooth Bore Tubing 58

### Anaesthetic Face Masks

Scented Anaesthetic Face Masks 59
Inflatable Anaesthetic Face Masks 60
Silicone Anaesthetic Face Masks 60
Anaesthetic Face Mask Packs 60

### Soda Lime Absorbents

VentiSorb 61

### Patient Connectors & Accessories

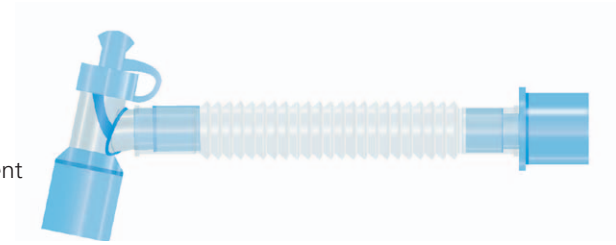
Connectors 62
T-Pieces 62
Y-Pieces 63
Corrugated Tubing 63
Monitoring Lines 64
Water Traps 64

# Catheter Mounts

A wide range of catheter mounts are available with either Standard, Flexi-Lock or Smooth Bore tubing with a variety of fixed or swivel elbows and connectors offering total flexibility.

### Total Flexibility
15mm standard or Flexi-Lock corrugated tubing allows ultimate flexibility during operative and clinical procedures when patient manoeuvring may be required.

### Maximum Choice
Wide range of Fixed or Swivel elbows with or without ports providing total flexibility for patient airway management.



### Secure Fitting
22mm F 15mm M end connectors allow for secure fitting to all Y Pieces meeting the approved standards.

## Standard 15mm Tubing

### Standard 15mm Tube Catheter Mount

| | | |
|---|---|---|
| 038-61-301 | Standard 15mm Tube Catheter Mount 22mm F and 15mm F Connectors | 50 |

### Standard 15mm Tube Catheter Mount with Low Profile Elbow

| | | |
|---|---|---|
| 038-61-302 | Standard 15mm Tube Catheter Mount with Low Profile Elbow 22mm F and 15mm F/22mm M Connectors | 50 |

### Standard 15mm Tube Catheter Mount with Luer Lock Elbow

| | | |
|---|---|---|
| 038-61-303 | Standard 15mm Tube Catheter Mount with Luer Lock Elbow 22mm F and 15mm F/22mm M Connectors | 50 |

### Standard 15mm Tube Catheter Mount with Low Profile Elbow and Elastomeric Cap

| | | |
|---|---|---|
| 038-61-304 | Standard 15mm Tube Catheter Mount with Low Profile Elbow and Elastomeric Cap 22mm F and 15mm F/22mm M Connectors | 50 |

### Standard 15mm Tube Catheter Mount with Double Swivel Elbow

| | | |
|---|---|---|
| 038-61-305 | Standard 15mm Tube Catheter Mount with Double Swivel Elbow 22mm F and 15mm F/22mm M Connectors | 50 |

### Standard 15mm Tube Catheter Mount with Double Swivel Elbow and Elastomeric Cap

| | | |
|---|---|---|
| 038-61-306 | Standard 15mm Tube Catheter Mount with Double Swivel Elbow and Elastomeric Cap 22mm F and 15mm F/22mm M Connectors | 50 |

# Catheter Mounts

## Standard 15mm Tubing with Detachable Catheter Mounts

### Standard 15mm Tube Catheter Mount with Detachable Low Profile Elbow

| | | |
|---|---|---|
| 038-61-301/640 | Standard 15mm Tube Catheter Mount with Detachable Low Profile Elbow 22mm F and 15mm F/22mm M Connectors | 50 |

### Standard 15mm Tube Catheter Mount with Detachable Luer Lock Elbow

| | | |
|---|---|---|
| 038-61-301/641 | Standard 15mm Tube Catheter Mount with Detachable Luer Lock Elbow 22mm F and 15mm F/22mm M Connectors | 50 |

### Standard 15mm Tube Catheter Mount with Detachable Low Profile Elbow and Elastomeric Cap

| | | |
|---|---|---|
| 038-61-301/642 | Standard 15mm Tube Catheter Mount with Detachable Low Profile Elbow and Elastomeric Cap 22mm F and 15mm F/22mm M Connectors | 50 |

### Standard 15mm Tube Catheter Mount with Detachable Double Swivel Elbow

| | | |
|---|---|---|
| 038-61-301/643 | Standard 15mm Tube Catheter Mount with Detachable Double Swivel Elbow 22mm F and 15mm F/22mm M Connectors | 50 |

### Standard 15mm Tube Catheter Mount with Detachable Double Swivel Elbow and Elastomeric Cap

| | | |
|---|---|---|
| 038-61-301/645 | Standard 15mm Tube Catheter Mount with Detachable Double Swivel Elbow and Elastomeric Cap 22mm F and 15mm F/22mm M Connectors | 50 |

# Catheter Mounts

## Flexi-Lock Tubing

### Flexi-Lock Tube Catheter Mount 15mm

| | | |
|---|---|---|
| 038-61-310 | Flexi-Lock Tube Catheter Mount 15mm F and 15mm F Connectors | 50 |

### Flexi-Lock Tube Catheter Mount 22mm

| | | |
|---|---|---|
| 038-61-311 | Flexi-Lock Tube Catheter Mount 22mm F and 15mm F Connectors | 50 |

### Flexi-Lock Catheter Mount with Low Profile Elbow

| | | |
|---|---|---|
| 038-61-312 | Flexi-Lock Catheter Mount with Low Profile Elbow<br>22mm F and 15mm F/22mm M Connectors | 50 |

### Flexi-Lock Catheter Mount with Luer Lock Elbow

| | | |
|---|---|---|
| 038-61-313 | Flexi-Lock Catheter Mount with Luer Lock Elbow<br>22mm F and 15mm F/22mm M Connectors | 50 |

### Flexi-Lock Catheter Mount with Elbow and Elastomeric Cap

| | | |
|---|---|---|
| 038-61-314 | Flexi-Lock Catheter Mount with Elbow and Elastomeric Cap<br>22mm F and 15mm F/22mm M Connectors | 50 |

### Flexi-Lock Catheter Mount with Double Swivel Elbow

| | | |
|---|---|---|
| 038-61-315 | Flexi-Lock Catheter Mount with Double Swivel Elbow<br>22mm F and 15mm F/22mm M Connectors | 50 |

### Flexi-Lock Catheter Mount with Double Swivel Elbow and Elastomeric Cap

| | | |
|---|---|---|
| 038-61-316 | Flexi-Lock Catheter Mount with Double Swivel Elbow<br>and Elastomeric Cap 22mm F and 15mm F/22mm M Connectors | 50 |

## Flexilock Tubing with Detachable Catheter Mounts

### Flexi-Lock Catheter Mount with Detachable Low Profile Elbow

| | | |
|---|---|---|
| 038-61-310/640 | Flexi-Lock Catheter Mount with Detachable Low Profile Elbow<br>22mm F and 15mm F/22mm M Connectors | 50 |

### Flexi-Lock Catheter Mount with Detachable Luer Lock Elbow

| | | |
|---|---|---|
| 038-61-310/641 | Flexi-Lock Catheter Mount with Detachable Luer Lock Elbow<br>22mm F and 15mm F/22mm M Connectors | 50 |

### Flexi-Lock Catheter Mount with Detachable Elbow and Elastomeric Cap

| | | |
|---|---|---|
| 038-61-310/642 | Flexi-Lock Catheter Mount with Detachable Elbow and Elastomeric Cap<br>22mm F and 15mm F/22mm M Connectors | 50 |

### Flexi-Lock Catheter Mount with Detachable Double Swivel Elbow

| | | |
|---|---|---|
| 038-61-310/643 | Flexi-Lock Catheter Mount with Detachable Double Swivel Elbow<br>22mm F and 15mm F/22mm M Connectors | 50 |

### Flexi-Lock Catheter Mount with Detachable Double Swivel Elbow and Elastomeric Cap

| | | |
|---|---|---|
| 038-61-310/645 | Flexi-Lock Catheter Mount with Detachable Double Swivel Elbow<br>and Elastomeric Cap 22mm F and 15mm F/22mm M Connectors | 50 |

# Catheter Mounts

## Smooth Bore Tubing

### Smooth Bore Catheter Mount

| | | |
|---|---|---|
| 038-61-321 | Smooth Bore Catheter Mount 22mm F and 15mm F Connectors | 50 |

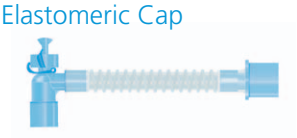
### Smooth Bore Catheter Mount with Low Profile Elbow

| | | |
|---|---|---|
| 038-61-322 | Smooth Bore Catheter Mount with Low Profile Elbow<br>22mm F and 15mm F/22mm M Connectors | 50 |

### Smooth Bore Catheter Mount with Luer Lock Elbow

| | | |
|---|---|---|
| 038-61-323 | Smooth Bore Catheter Mount with Luer Lock Elbow<br>22mm F and 15mm F/22mm M Connectors | 50 |

### Smooth Bore Catheter Mount with Elbow and Elastomeric Cap



| | | |
|---|---|---|
| 038-61-324 | Smooth Bore Catheter Mount with Elbow<br>and Elastomeric Cap 22mm F and 15mm F/22mm M Connectors | 50 |

### Smooth Bore Catheter Mount with Double Swivel Elbow

| | | |
|---|---|---|
| 038-61-325 | Smooth Bore Catheter Mount with Double Swivel Elbow<br>22mm F and 15mm F/22mm M Connectors | 50 |

### Smooth Bore Catheter Mount with Double Swivel Elbow and Elastomeric Cap

| | | |
|---|---|---|
| 038-61-326 | Smooth Bore Catheter Mount with Double Swivel Elbow<br>and Elastomeric Cap 22mm F and 15mm F/22mm M Connectors | 50 |

# Anaesthetic Face Masks

## Scented Anaesthetic Face Masks

Some patients receiving anaesthesia, particularly children,can find the experience unpleasant. The Flexicare range of scented anaesthetic face masks offered in three aromas Lemon, Strawberry and Vanilla to help overcome this problem.

Inflatable Cushion - The seal can be enhanced by inflating/deflating the cushion to suit the patient's anatomical contour.
Colour Coding - The masks are colour coded to identify the aroma and mask size
Ease of Observation - Clear face piece allows visual observation of the patient status.
Soft Cushion - Smooth material used for the cushion allows for a tight seal while providing patient comfort.

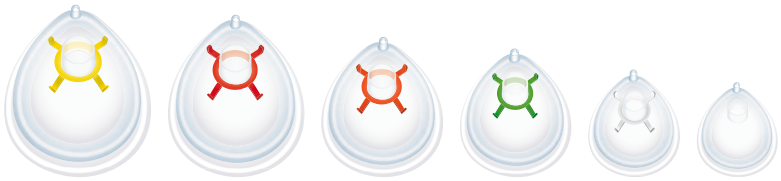
## Lemon Scented Inflatable Disposable Anaesthetic Face Masks

| | | | | | |
|---|---|---|---|---|---|
| 038-51-400SFL | Large Adult | Lemon Scented Inflatable Disposable Face Mask | Size 5 | | 50 |
| 038-51-410SFL | Adult | Lemon Scented Inflatable Disposable Face Mask | Size 4 | | 50 |
| 038-52-415SFL | Large Child | Lemon Scented Inflatable Disposable Face Mask | Size 3 | | 50 |
| 038-52-420SFL | Medium Child | Lemon Scented Inflatable Disposable Face Mask | Size 2 | | 50 |
| 038-52-430SFL | Small Child | Lemon Scented Inflatable Disposable Face Mask | Size 1 | | 50 |
| 038-54-440SFL | Neonatal | Lemon Scented Inflatable Disposable Face Mask | Size 0 | | 50 |

## Strawberry Scented Inflatable Disposable Anaesthetic Face Masks

| | | | | | |
|---|---|---|---|---|---|
| 038-51-415SFS | Large Child | Strawberry Scented Inflatable Disposable Face Mask | Size 3 | | 50 |
| 038-51-420SFS | Medium Child | Strawberry Scented Inflatable Disposable Face Mask | Size 2 | | 50 |
| 038-52-430SFS | Small Child | Strawberry Scented Inflatable Disposable Face Mask | Size 1 | | 50 |
| 038-52-440SFS | Neonatal | Strawberry Scented Inflatable Disposable Face Mask | Size 0 | | 50 |

## Vanilla Scented Inflatable Disposable Anaesthetic Face Masks



| | | | | | |
|---|---|---|---|---|---|
| 038-51-400SFP | Large Adult | Vanilla Scented Inflatable Disposable Face Mask | Size 5 | | 50 |
| 038-51-410SFP | Adult | Vanilla Scented Inflatable Disposable Face Mask | Size 4 | | 50 |
| 038-52-415SFP | Large Child | Vanilla Scented Inflatable Disposable Face Mask | Size 3 | | 50 |
| 038-52-420SFP | Medium Child | Vanilla Scented Inflatable Disposable Face Mask | Size 2 | | 50 |
| 038-52-430SFP | Small Child | Vanilla Scented Inflatable Disposable Face Mask | Size 1 | | 50 |
| 038-54-440SFP | Neonatal | Vanilla Scented Inflatable Disposable Face Mask | Size 0 | | 50 |

# Anaesthetic Face Masks

## Inflatable Disposable Anaesthetic Face Masks

The pre-filled disposable anaesthetic face mask is available in 6 sizes from neonatal to large adult, with individually colour coded hooks for ease of identification. Compatible with all standard catheter mounts and breathing system with 22mm & 15mm connectors.

| | | | | | |
|---|---|---|---|---|---|
| 038-51-400 | Large Adult | Pre-Filled Inflatable Disposable Face Mask | Size 5 | | 50 |
| 038-51-410 | Adult | Pre-Filled Inflatable Disposable Face Mask | Size 4 | | 50 |
| 038-52-415 | Large Child | Pre-Filled Inflatable Disposable Face Mask | Size 3 | | 50 |
| 038-52-420 | Medium Child | Pre-Filled Inflatable Disposable Face Mask | Size 2 | | 50 |
| 038-52-430 | Small Child | Pre-Filled Inflatable Disposable Face Mask | Size 1 | | 50 |
| 038-54-440 | Neonatal | Pre-Filled Inflatable Disposable Face Mask | Size 4 | | 50 |

## Silicone Reusable Anaesthetic Face Masks

The reusable silicone anaesthetic face masks are fully autoclavable up to 50 times. The moulded texture of the rim ensures maximum patient comfort and a tight seal, while the transparent face piece allows patient monitoring at all times. 22mm and 15mm connectors ensures compatibility with all standard catheter mounts and breathing systems.

| | | | | |
|---|---|---|---|---|
| 038-51-400SIL | Large Adult | Silicone Reusable Face Mask | Size 5 | 50 |
| 038-51-410SIL | Adult | Silicone Reusable Face Mask | Size 4 | 50 |
| 038-52-415SIL | Large Child | Silicone Reusable Face Mask | Size 3 | 50 |
| 038-52-420SIL | Medium Child | Silicone Reusable Face Mask | Size 2 | 50 |
| 038-52-430SIL | Small Child | Silicone Reusable Face Mask | Size 1 | 50 |
| 038-54-440SIL | Neonatal | Silicone Reusable Face Mask | Size 4 | 50 |

## Anaesthetic Face Masks Packs

| | | | | |
|---|---|---|---|---|
| 038-51-400/A | Large Adult | Face Mask, Elbow, Filter HME + port | Size 5 | 50 |
| 038-51-410/A | Adult | Face Mask, Elbow, Filter HME + port | Size 4 | 50 |
| 038-51-415/A | Large Child | Face Mask, Elbow, Filter HME + port | Size 3 | 50 |
| 038-51-420/A | Medium Child | Face Mask, Elbow, Filter HME + port | Size 2 | 50 |

| | | | | |
|---|---|---|---|---|
| 038-61-355 | Large Adult | Face Mask, Filter, Detachable Elbow + Catheter Mount | Size 5 | 50 |
| 038-61-354 | Adult | Face Mask, Filter, Detachable Elbow + Catheter Mount | Size 4 | 50 |
| 038-61-353 | Large Child | Face Mask, Filter, Detachable Elbow + Catheter Mount | Size 3 | 50 |
| 038-61-352 | Medium Child | Face Mask, Filter, Detachable Elbow + Catheter Mount | Size 2 | 50 |
| 038-61-351 | Small Child | Face Mask, Filter, Detachable Elbow + Catheter Mount | Size 1 | 50 |

# Soda Lime Absorbents

VentiSorb
VentiSorb® is a carbon dioxide absorbent with excellent efficiency and low resistance for use within closed circle systems.

VentiSorb®

VentiSorb is a medical grade soda lime prepared in granulated form. The individual granules are specifically non-uniform in shape and size so that $CO_2$ filtration is maximized without restricting airflow. VentiSorb offers excellent efficiency in absorbing carbon dioxide and other acidic contamination from gas stream while minimizing dust particle formation. The chemical attributes of the active compound is naturally porous and hard which acts as a heat and moisture exchange.

The use of closed circuit systems within the operating room has increased dramatically over the last few years in that low flow capability allows for use on paediatrics as well as adults. The use of VentiSorb in closed systems offers the following benefits:

- Increased Moisture Output
- Minimal Anaesthetic Agent Degradation
- Improved Heat Retention

## Operator Benefits

The benefits of using closed circle systems for their low flow anaesthesia delivery capabilities extends beyond patient benefits. The implication for the operating department being that anaesthetic gases used to induce patients does not unnecessarily pollute the operating room.

## Colour Change Indicator

When exhausted VentiSorb will change colour indicating that the soda lime needs to be changed. This should be used alongside a $CO_2$ monitor to confirm compound exhaustion.

Pink → White

White → Violet

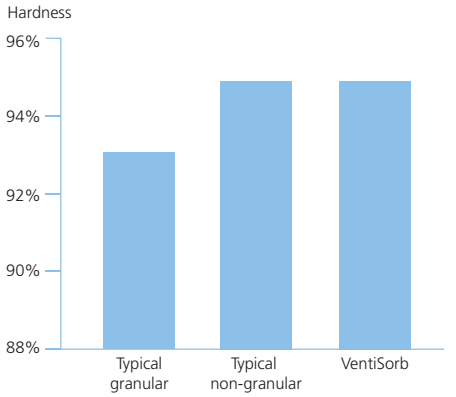
VentiSorb is available in two different colour change indicators both conforming to international standards. They are either from Pink to White or from White to Violet. Both give clear visual indications as to the extent of the $CO_2$ absorption and the life extent of the soda lime.

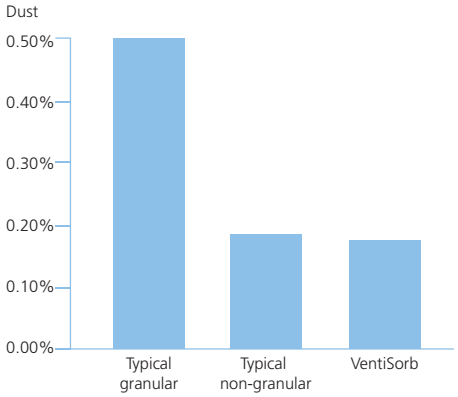
## Particle Packing

VentiSorb granules range from 2.5 - 5.0 in size, allowing for a tightly packed layered canister increasing the efficiency of the $CO_2$ absorption without significantly increasing resistance.

## Physical Characteristics

The graphs below demonstrates VentiSorb's physical characteristics in comparison to other Soda Lime absorbers.




| SPECIFICATION | GRADE | PARTICLE SIZE | $CO_2$ CAPACITY | HARDNESS |
|---|---|---|---|---|
| US Pharmacopoeia | USP | Mesh: 4-8 Particles: 2.5mm-5.0mm | 19wt% minimum | >75 |

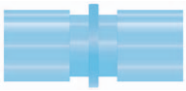
| | | |
|---|---|---|
| 038-05-601 | 1.3kg VentiSorb supplied in resealable bags. Pink to White | 12 |
| 038-05-602 | 4.5kg VentiSorb supplied in resealable bags. Pink to White | 2 |
| 038-05-603 | 1.3kg VentiSorb supplied in resealable bags. White to Violet | 12 |
| 038-05-604 | 4.5kg VentiSorb supplied in resealable bags. White to Violet | 2 |

# Patient Connectors and Accessories

## Connectors

010-610 100

22mm M / F Serrated Connector



010-611 100

22mm M / 15mm F Connector

010-612 100

22mm F / 15mm M Connector

010-613 100

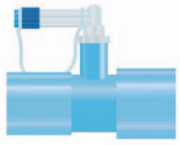
15mm M / M Connector

010-614 50

15mm M / F Connector

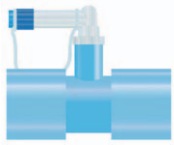
010-601 50

22mm M / F with Barbed Right Angled Connector



010-602 50

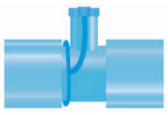
22mm M / F with Luer Right Angled Port



010-603 50

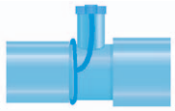
22mm F / F with Luer Right Angled Port

## Washington T-Pieces



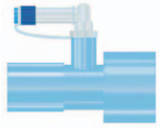
010-604 50

22F / F Connector with Port and Plug



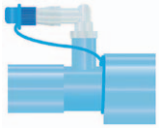
010-605 50

22mm M / F Connector with Port and Plug



010-638 50

15mm M / 22mm M / 15mm F with Luer Right Angled Port



010-639 50

15mm M / 22mm M / 15mm F, Barbed Right Angled Connector

## T-Pieces

010-630 50

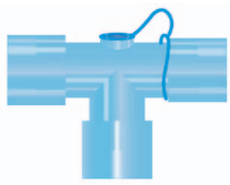
22M / M / M T-Piece

010-631 50

22mm M / M / F T-Piece

010-633 50

22mm M / M / M T-Piece with Port

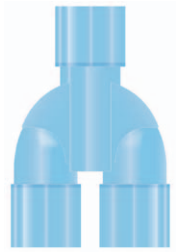


010-634 50

22mm M / M / F T-Piece with Port

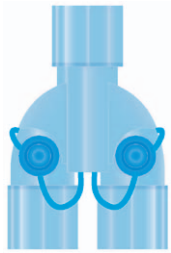
# Patient Connectors and Accessories

## Y-Pieces



010-620 50

22mm Plain Parallel Y-Piece



010-621 50

22mm Plain Parallel Y-Piece with Monitoring Ports

010-622 50

22mm Parallel Y-Piece with $CO_2$ Luer Lock Port

010-623 50

22mm Swivel Y-Piece

## In-Line Valve

020-620 50

15mm Plain Parallel Y-Piece

020-621 50

15mm Y-Piece with Monitoring Ports

032-10-120 10

In-Line Valve for use with MaxiNeb Nebuliser

## Elbows

010-640 50

Elbow Low Profile 22M / 15F

010-641 50

Elbow with Luer Lock Port 22M / 15F

010-642 50

Elbow with Elastomeric Cap for Suction 22M / 15F

010-643 50

Double Swivel Elbow 22M / 15F

010-645 50

Double Swivel Elbow with Suction Cap 22M / 15F

## Corrugated Tubing



038-01-225 50m Roll

22mm Corrugated tube. 45cm repeat in dispensing box. 50m



038-01-226 50m Roll

22mm Corrugated tube. 45cm repeat in dispensing box. Low compliance



038-01-227 50m Roll

Blue 22mm Corrugated tube for scavenging. 45cm repeat in dispensing box

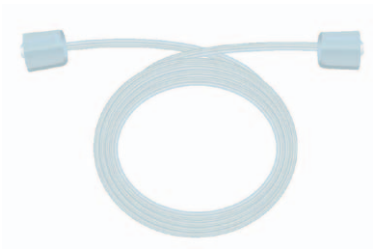


038-02-225 50m Roll

15mm Corrugated tube. 45cm repeat in dispensing box

# Patient Connectors and Accessories

## Monitoring Lines



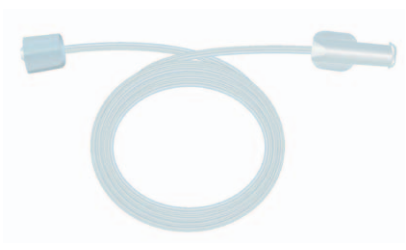
010-700 25

Monitoring line with
M / M Connectors - 2m Tubing



010-705 25

Monitoring line with
F / F Connectors - 2m Tubing



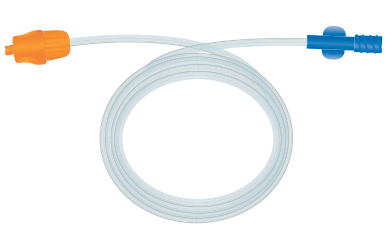
010-710 25

Monitoring line with
M / F Connectors - 2m Tubing

## Reservoir Bags (Latex Free)

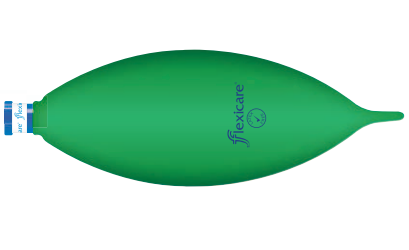
010-720 10

LuerSafe Monitoring line
M / M Connectors - 2m Tubing



010-725 10

LuerSafe Monitoring line
M / F Connectors - 2m Tubing

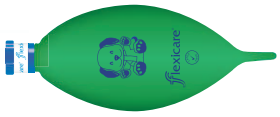


038-81-830NL 10

3 Litre Reservoir Bag with
22mm Female Connector

038-81-820NL 10

2 Litre Reservoir Bag with
22mm Female Connector



038-82-810NL 10

1 Litre Reservoir Bag with
22mm Female Connector

038-83-805NL 10

0.5 Litre Reservoir Bag with
22mm Female Connector - Closed Tail

## Water Traps

038-82-805NL 10

0.5 Litre Reservoir Bag with
22mm Female Connector - Open Tail

020-650 10

Paediatric
Self Sealing Water Trap

010-650 10

Adult
Self Sealing Water Trap

# CRITICAL CARE

## ITU Ventilator Systems, Humidified Ventilator Systems and Non Invasive Ventilation Breathing Systems

A complete range of ICU circuits, active humidification circuits, CPAP and BiPAP.

### Critical Care

Introduction 66

### ITU Ventilator Systems

Standard Ventilator Breathing Systems 67

Heated Wire Breathing Systems 68

Dual Heated Wire Breathing Systems 68

### Humidified Ventilator Systems

Humidification Chambers 69

Ventilator Breathing Systems 70

### Non Invasive Ventilation Breathing Systems

PEEP Valves 62

CPAP Masks 73

CPAP Headstrap 73

CPAP Breathing Systems 74

BiPAP Breathing Systems 76

IPPB Breathing Systems 76

## ITU Breathing Systems

Flexicare provides a wide range of specifically designed low compliance breathing circuits for patients requiring ventilation in Intensive Care Units. Our range of circuits and accessories offer a full range to meet the demands of patients from standard ventilator circuits to heated wire circuits and chambers. A wide range of ITU Breathing Systems are offered to match individual requirements.

### Easy to Manage

The parallel Y piece allows for a greater control of the system. The double walled, 22mm M/15mm F patient end connection allows for ease of fitting to Catheter Mounts, Endotracheal Tubes, Laryngeal Masks, Face Masks or Elbows.

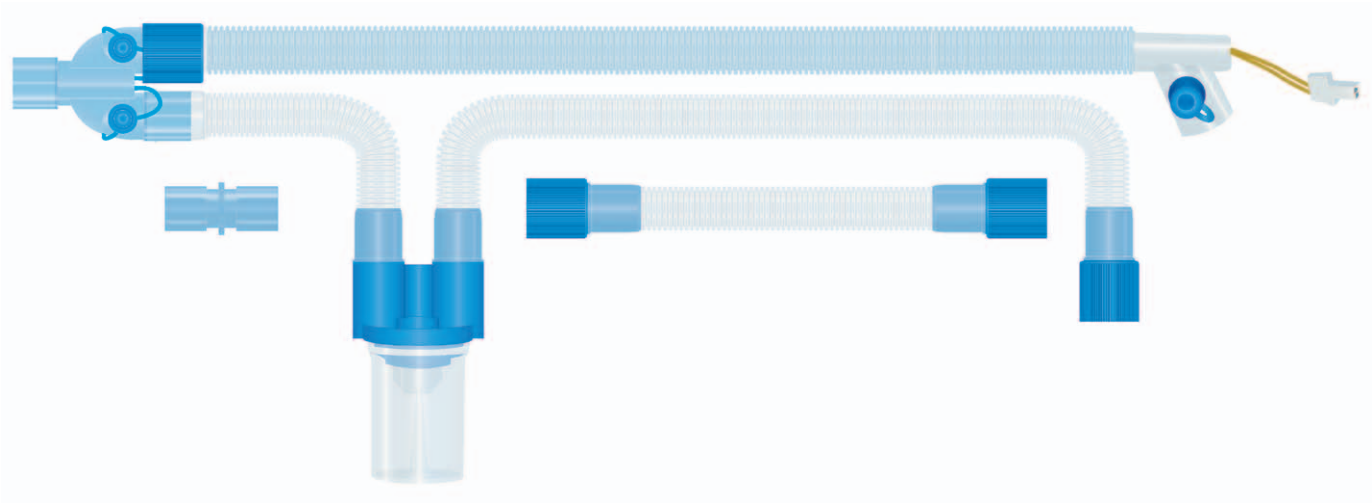
The frosted connection check marks on the connector on the patient side of the Y piece allows for visual inspection, confirming secure attachment.

### Low Compliance with reduced Pressure and Drag on the Patient

Low compliance ventilator tubes are made with a high density flexible co-polymer, providing compliance to a level which is required for use with ventilated patients.

### Heated Wires

Each heated wire system is tested to ensure it meets the required resistance level.



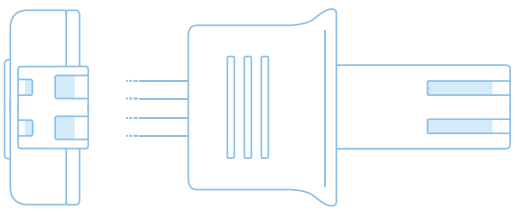
### Maximised Water Collection

Self sealing water trap will close when the receiver is removed for contents discharge hence securing ventilation pressure. The dual action valve inside the water trap prevents condensate flowing back into the system should the container be moved from it's vertical position. Vertical inlet ports enhance gravity induced flow of condensate, maximising water collection from the circuit.

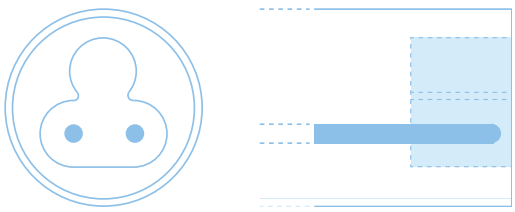
### Easy and Secure Fitting

22mm F serrated connectors providing a secure fitting to the machine. Secure hand grip enables easy removal from the machine. Soft, lightweight and flexible material ensures a secure seal while still allowing ease of connection and disconnection.

### Flying Lead Connection (standard):



### Clover Leaf Connection:



### Compatibility

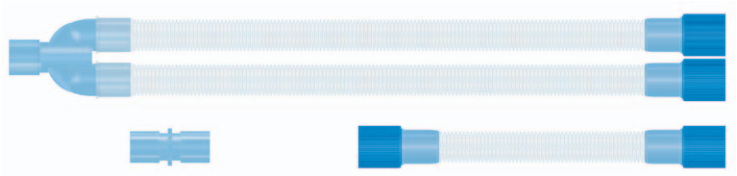
These circuits are available with two types of heated wire connection, (Flying Lead and Clover Leaf) allowing compatibility with Fisher & Paykel™ and the most commonly used humidifiers and ventilators complying with the required standards.

## ITU Breathing Systems

### Standard Ventilator Breathing System

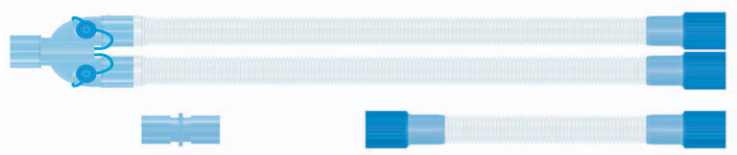
| | | |
|---|---|---|
| 038-01-130 | Standard Ventilator Breathing System (1.6m)<br>22mm lightweight low compliance corrugated tube with parallel Y piece and 22mm F connectors + spare 22mm M/M connector | 20 |
| 038-01-132 | Standard Ventilator Breathing System (2.4m)<br>22mm lightweight low compliance corrugated tube with parallel Y piece and 22mm F connectors + spare 22mm M/M connector | 20 |

### Standard Ventilator Breathing System with Limb



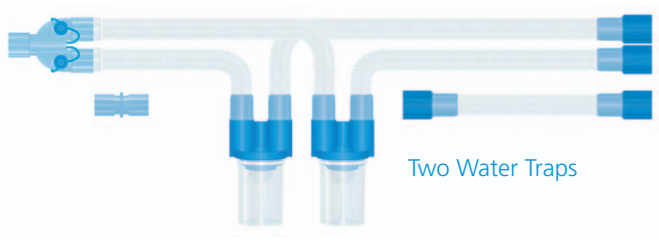
| | | |
|---|---|---|
| 038-01-135 | Standard Ventilator Breathing System with limb (1.6m)<br>22mm lightweight low compliance corrugated tube with parallel Y piece and 22mm F connectors + 0.8m F/F limb + spare 22mm M/M connector | 20 |

### Standard Ventilator Breathing System with Monitoring Ports



| | | |
|---|---|---|
| 038-01-140 | Standard Ventilator Breathing System with Monitoring Ports (1.6m)<br>22mm lightweight low compliance corrugated tube with parallel Y piece and 2 monitoring ports, 22mm F connectors + 0.8m F/F limb + spare 22mm M/M connector | 20 |

### Standard Ventilator Breathing Systems with Monitoring Ports with Water Trap




| | | |
|---|---|---|
| 038-01-150 | Standard Ventilator Breathing System with Monitoring Ports and one Water Trap (1.6m)<br>22mm lightweight low compliance corrugated tube with parallel Y piece and 2 monitoring ports, 22mm F connectors, one self sealing water trap + 0.8m F/F limb + spare 22mm M/M connector | 20 |
| 038-01-155 | Standard Ventilator Breathing System with Monitoring Ports and two Water Traps (1.6m)<br>22mm lightweight low compliance corrugated tube with parallel Y piece and 2 monitoring ports, 22mm F connectors, 2 self sealing water traps, + 0.8m F/F limb + spare 22mm M/M connector | 20 |

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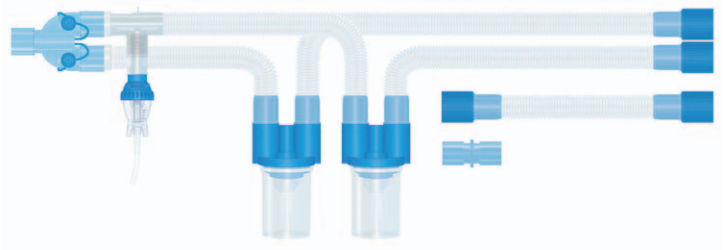
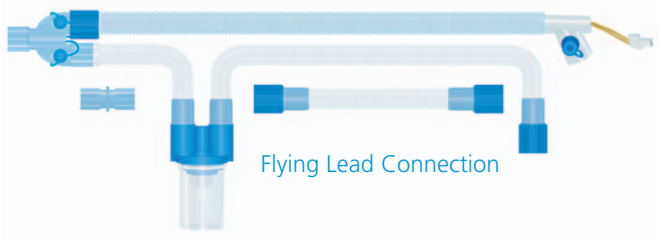
## Standard Ventilator Breathing Systems with in-line T-Piece valve and MaxiNeb Nebuliser

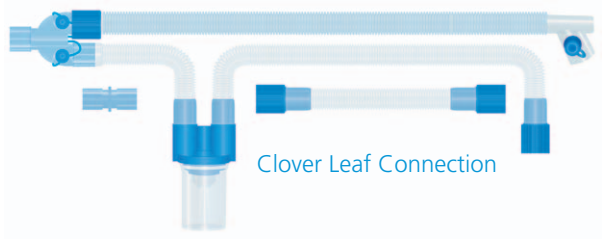


| | | |
|---|---|---|
| 038-01-155F | Standard Ventilator Breathing System with Monitoring Ports and one Water Trap (1.6m)<br>22mm lightweight low compliance corrugated tube with parallel Y piece<br>and 2 monitoring ports, 22mm F connectors, one self sealing water trap<br>+ 0.8m F/F limb + spare 22mm M/M connector | 20 |

## Heated Wire Breathing Systems

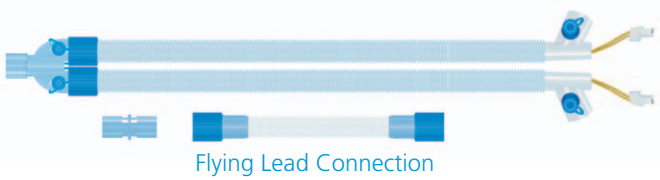
### Heated Wire Breathing Systems with Water Trap and Monitoring Ports

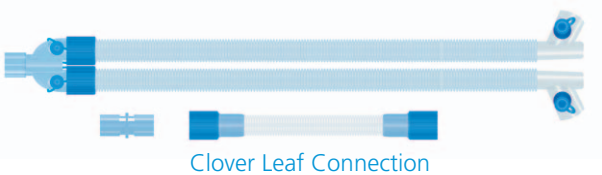



| | | |
|---|---|---|
| 038-01-160 | Heated Wire Breathing System with Water Trap and Monitoring Ports (1.6m)<br>22mm lightweight low compliance, heat resistant corrugated tube with<br>parallel Y piece, two monitoring ports, 22mm F connectors, self sealing<br>water trap + 0.8m F/F limb + spare 22mm M/M connector. Flying Lead Connection. | 20 |
| 038-01-163 | Heated Wire Breathing System with Water Trap and Monitoring Ports (1.6m)<br>22mm lightweight low compliance, heat resistant corrugated tube with<br>parallel Y piece, two monitoring ports, 22mm F connectors, self sealing<br>water trap + 0.8m F/F limb + spare 22mm M/M connector. Clover Leaf Connection. | 20 |

## Dual Heated Wire Breathing Systems




| | | |
|---|---|---|
| 038-01-161 | Dual Heated Wire Breathing System (1.6m)<br>22mm lightweight low compliance, heat resistant corrugated tube with<br>parallel Y piece, two monitoring ports, 22mm F connectors + 0.8m F/F limb<br>+ spare 22mm M/M connector. Flying Lead Connection. | 20 |
| 038-01-164 | Dual Heated Wire Breathing System (1.6m)<br>22mm lightweight low compliance, heat resistant corrugated tube with<br>parallel Y piece, two monitoring ports, 22mm F connectors + 0.8m F/F limb<br>+ spare 22mm M/M connector. Clover Leaf Connection. | 20 |

# Humidified Ventilator Systems

## Principles of Humidity

Inspired gas is normally warmed, filtered and moistened during its passage through the upper airways, a process which is by passed by endotracheal intubation and tracheostomy exposing the lungs and airways to dry cold gas giving rise to a number of adverse effects including: An increase in Mucus Viscosity, Depressed ciliary activity and Obstruction of the airways by tenacious secretions. Artificial humidification of inspired gases is therefore essential when the upper respiratory tract is bypassed.

## Both our Manual and Auto Fill Chambers share these features:

### Compatible with all circuits

22mm connectors allow compatibility with the wide range of circuits available.

### Clear construction

Clear construction of the humidification chamber allows constant monitoring of the water.

### Heat Transfer

Effective Heat Transfer From Aluminium Base.

### Durable

The durable construction means that the chamber is impact resistant.

### Gas Flow Diverters

The diverters ensure the patient receives a higher level of humidified air, by maximizing the flow as it passes through the chamber.

## Manual-Fill Humidification Chamber

MAXIMUM WATER LEVEL
CAUTION
Fill only with sterile water using the heater level marking as a guide.
Refill the chamber before it is totally empty.
Do not exceed maximum peak flow rate of 100-lt./min.

- 220ml Capacity
- Integrated Water Feed Sets with Universal Connectors & maximum and minimum water level indicators.

## Auto-Fill Humidification Chamber

- 210ml Capacity
- The specially designed valve regulates the flow of water into the chamber.

## Humidification Chambers

Compatible with Fisher Paykel™ MR850, MR810 and MR880 Humidifiers

Manual Fill Chamber

Auto Fill Chamber

| | | |
|---|---|---|
| 038-31-750 | Manual Fill Humidification Chamber<br>220ml Capacity | 20 |
| 038-31-740 | Auto Fill Humidification Chamber<br>210ml Capacity | 20 |

# Humidified Ventilator Systems

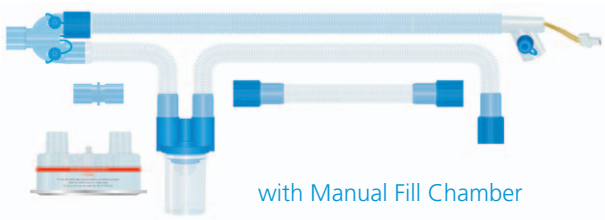
## Ventilator Breathing Systems

with Manual Fill Chamber

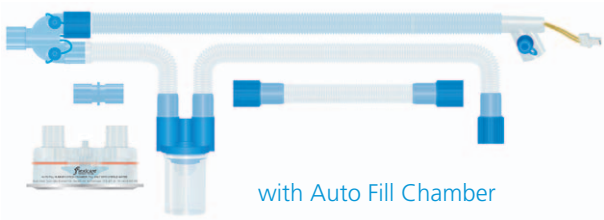
with Auto Fill Chamber

| | | |
|---|---|---|
| 038-31-755 | Ventilator Breathing System (1.6m)<br>with Y piece, monitoring ports, water trap and manual fill humidification chamber. | 20 |
| 038-31-760 | Ventilator Breathing System (1.6m)<br>with Y piece, monitoring ports, 2 water traps and manual fill humidification chamber | 20 |
| 038-31-756 | Ventilator Breathing System (1.6m)<br>with Y piece, monitoring ports, water trap and auto fill humidification chamber. | 20 |
| 038-31-761 | Ventilator Breathing System (1.6m)<br>with Y piece, monitoring ports, 2 water traps and auto fill humidification chamber | 20 |

## Heated wire Ventilator Breathing Systems with Flying Lead Connections



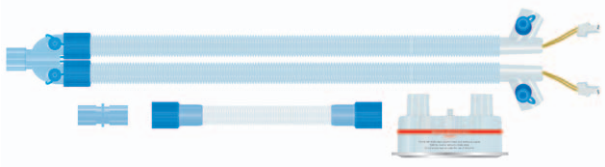
with Manual Fill Chamber



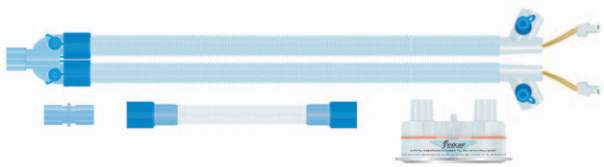
with Auto Fill Chamber

| | | |
|---|---|---|
| 038-31-765 | Ventilator Breathing System (1.6m) Heated wire<br>with Y piece, monitoring ports, water trap and manual fill humidification chamber. | 20 |
| 038-32-765 | Ventilator Breathing System (1.6m) Heated wire<br>with Y piece, monitoring ports, 2 water traps and manual fill humidification chamber | 20 |
| 038-31-767 | Ventilator Breathing System (1.6m) Heated wire<br>with Y piece, monitoring ports, water trap and auto fill humidification chamber. | |
| 038-32-767 | Ventilator Breathing System (1.6m) Heated wire<br>with Y piece, monitoring ports, 2 water traps and auto fill humidification chamber | |

## Dual Heated wire Ventilator Breathing Systems with Flying Lead Connections



with Manual Fill Chamber

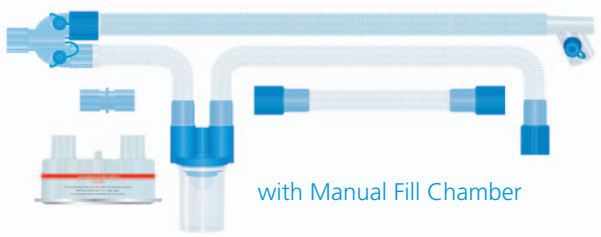


with Auto Fill Chamber

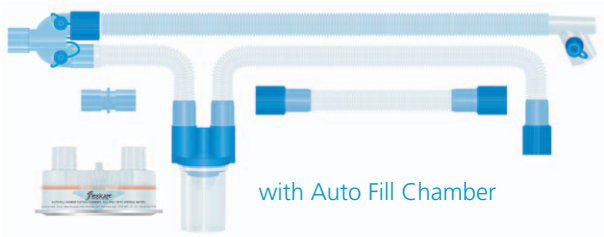
| | | |
|---|---|---|
| 038-31-745 | Dual Heated wire Breathing System (1.6m)<br>with Y piece, monitoring ports and manual fill humidification chamber. | 20 |
| 038-32-747 | Dual Heated wire Breathing System (1.6m)<br>with Y piece, monitoring ports and auto fill humidification chamber. | 20 |

# Humidified Ventilator Systems

## Heated wire Ventilator Breathing Systems with Clover Leaf Connections



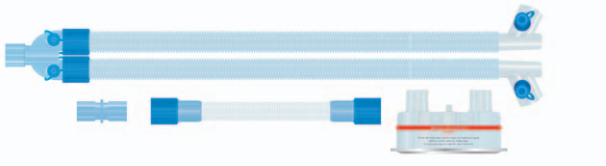
with Manual Fill Chamber



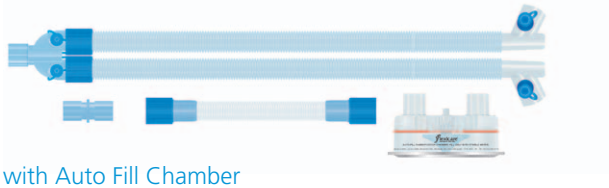
with Auto Fill Chamber

| | | |
|---|---|---|
| 038-31-766 | Ventilator Breathing System (1.6m) Heated wire<br>with Y piece, monitoring ports, water trap and manual fill humidification chamber. | 20 |
| 038-32-766 | Ventilator Breathing System (1.6m) Heated wire<br>with Y piece, monitoring ports, 2 water traps and manual fill humidification chamber | 20 |
| 038-31-768 | Ventilator Breathing System (1.6m) Heated wire<br>with Y piece, monitoring ports, water trap and auto fill humidification chamber. | |
| 038-32-768 | Ventilator Breathing System (1.6m) Heated wire<br>with Y piece, monitoring ports, 2 water traps and auto fill humidification chamber | |

## Dual Heated wire Ventilator Breathing Systems with Clover Leaf Connections



with Manual Fill Chamber



with Auto Fill Chamber

| | | |
|---|---|---|
| 038-31-746 | Dual Heated wire Breathing System (1.6m)<br>with Y piece, monitoring ports and manual fill humidification chamber. | 20 |
| 038-32-748 | Dual Heated wire Breathing System (1.6m)<br>with Y piece, monitoring ports and auto fill humidification chamber. | 20 |

## PEEP Valves, Masks and Accessories

Flexicare have developed a range of Fixed PEEP (Fixed Positive End Expiratory Pressure) valves provided for clinicians to prescribe a given maximum pressure for the patients requirement. The valves are colour coded and denote the pre-determined fixed value of PEEP.

## Patients which may be suitable for non invasive ventilation (NIV) may demonstrate:

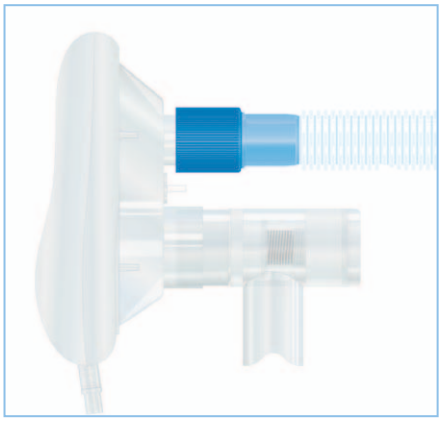
- Acute exacerbation for COPD
- Asthmatic Patients
- Acute or Chronic Respiratory Failure (including Hypoxaemic Acute Respiratory Failure)
- Mechanical Ventilation Weaning
- Thoracic Restrictive Disease

## Fixed PEEP Valves

Flexicare have developed a range of Fixed PEEP (Fixed Positive End Expiratory Pressure) valves providing for the clinician to prescribe a given maximum pressure for the patients requirement. The valves are colour coded and denote the pre-determined fixed value of PEEP.

2.5cm $H_2O$ | 5.0cm $H_2O$ | 7.5cm $H_2O$ | 10cm $H_2O$ | 12.5cm $H_2O$ | 15cm $H_2O$ | 20cm $H_2O$

The PEEP valve is fitted to a specially designed CPAP mask on the lower expiratory port to allow expired gases to be exhaled via fixed value exhalation port.



Previously the only method for ventilation involved the patient being sedated and intubated. However, with positive pressure, patients with respiratory failure or lung disease can benefit from NIV as this negates the need for intubation and the associated risks outside of the Intensive Care department and for some patients needing long term support, this can be administered in the home environment as well.

The Flexicare CPAP Mask is specifically designed to create a good seal when fitted to the patient whilst providing maximum comfort during use.

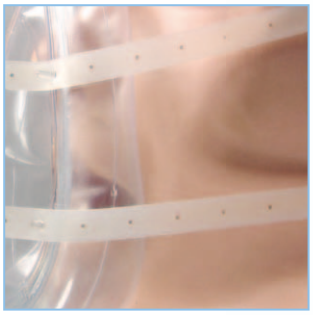
## Fixed Value PEEP Valves

| | | | |
|---|---|---|---|
| 038-35-902 | Fixed Value PEEP Valve 2.5cm H2O (Black) | ● | 5 |
| 038-35-905 | Fixed Value PEEP Valve 5cm H2O (Blue) | ● | 5 |
| 038-35-907 | Fixed Value PEEP Valve 7.5cm H2O (Yellow) | ● | 5 |
| 038-35-910 | Fixed Value PEEP Valve 10cm H2O (Green) | ● | 5 |
| 038-35-912 | Fixed Value PEEP Valve 12.5cm H2O (Pink) | ● | 5 |
| 038-35-915 | Fixed Value PEEP Valve 15cm H2O (Red) | ● | 5 |
| 038-35-920 | Fixed Value PEEP Valve 20cm H2O (Brown) | ● | 5 |

## CPAP Masks

The Flexicare CPAP Mask is specifically designed to create a good seal when fitted to the patient whilst providing maximum comfort during use.

### Inspiratory Safety Valve
Incorporates a safety valve for inspiration should the flow rate be insufficient or if the inspiratory line be occluded.



### Contoured Cushion
Conforms to the patients anatomical contour.

### Pressure Monitoring Port

### Fixation Mounts
Secures the four point harness

### Inflation Port
Easily adjusts the cushion pressure to maximize seal and ensure patient comfort.

### Clear Construction
Allows for visual inspection of patient

### CPAP Masks

| | | |
|---|---|---|
| 038-35-930 | Large Adult CPAP Mask | 10 |
| 038-35-934 | Medium Adult CPAP Mask | 10 |

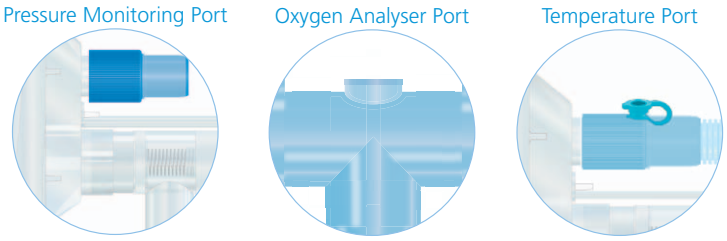
The CPAP Mask Head strap is adjustable to accommodate patients requirements with equal interval placements to ensure comfort whilst providing a secure fit. The soft silicone Head strap has rounded edges to maximise patient comfort over prolonged periods of use.

### CPAP Headstrap

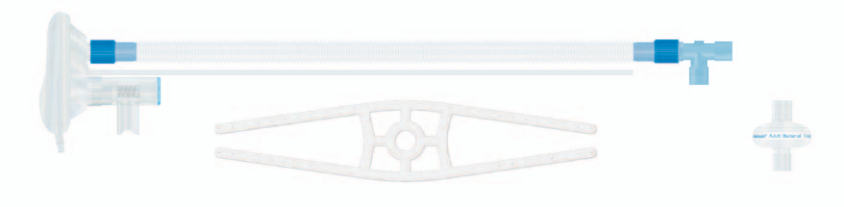
| | | |
|---|---|---|
| 038-35-934 | CPAP Mask Headstrap | 10 |

## CPAP Breathing Systems

Continuous Positive Airway Pressure (CPAP) is commonly used in critically ill patients with respiratory failure primarily to provide increased blood oxygenation by maintaining PaO2 levels for effective ventilation.

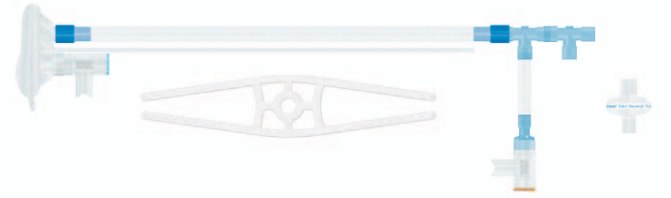



### Standard CPAP System



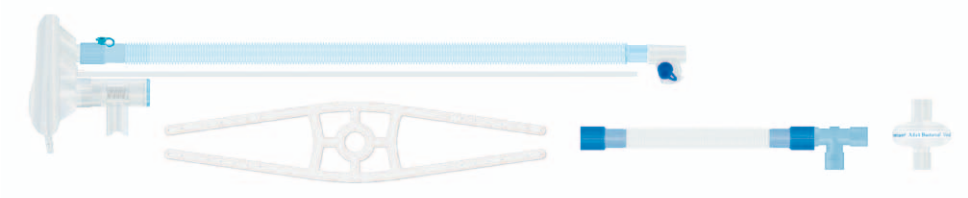
| | | | |
|---|---|---|---|
| 038-35-940 | CPAP Breathing System 1.6m with Large Adult Mask, Headstrap, filter & 5cm H2O PEEP valve (incl pressure line) | ● | 10 |

### Standard CPAP System with Safety Valve



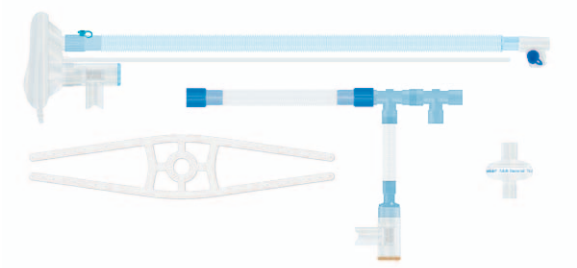
| | | | |
|---|---|---|---|
| 038-35-941 | CPAP Breathing System 1.6m with Large Adult Mask, Headstrap, filter & 5cm H2O and 20cm H2O PEEP valve (incl pressure line) | ● ● | 10 |

### Active Humidification CPAP System



| | | | |
|---|---|---|---|
| 038-35-942 | Heated Wire CPAP System 1.6m with Large Adult Mask, Headstrap, filter & 5cm H2O PEEP valve (incl pressure line) | ● | 10 |

### Active Humidification CPAP System with Safety Valve



| | | | |
|---|---|---|---|
| 038-35-943 | Heated Wire CPAP System 1.6m with Large Adult Mask, Headstrap, filter & 5cm H2O and 20cm H2O PEEP valve (incl pressure line) | ● ● | 10 |

# Non Invasive Ventilation Breathing Systems

## Complete Active Humidification CPAP System

| | | | |
|---|---|---|---|
| 038-35-944 | CPAP Heated Wire System 1.6m with Large Adult Mask, Headstrap, Autofill Chamber, filter & 5cm H2O PEEP valve (incl pressure line) | ● | 10 |

## Complete Active Humidification CPAP System with Safety Valve

| | | | |
|---|---|---|---|
| 038-35-945 | CPAP Heated Wire System 1.6m with Large Adult Mask, Headstrap, Autofill Chamber, filter & 5cm H2O and 20cm H20 PEEP valve (incl pressure line) | ● ● | 10 |

## Basic CPAP T-Piece System

| | | | |
|---|---|---|---|
| 038-35-950 | Basic CPAP T-Piece System 2.4m | | 10 |

## Standard CPAP T-Piece System

| | | | |
|---|---|---|---|
| 038-35-952 | Heated Wire CPAP T-Piece System 2.4m with 5cm H2O and 10cm H2O PEEP valves and filter | ● | 10 |

## Standard CPAP T-Piece System with Safety Valve

| | | | |
|---|---|---|---|
| 038-35-954 | Heated Wire CPAP T-Piece System 2.4m with 5cm H2O and 10cm H2O PEEP valves, Autofill Chamber and filter | ● ● | 10 |

# Non Invasive Ventilation Breathing Systems

## Bi Level Positive Airway Pressure (BiPAP)

### Basic BiPAP System

| | | |
|---|---|---|
| 038-35-290 | Smooth Bore 1.6m Breathing System with exhaust port | 10 |
| 038-35-291 | As above with 22mm corrugated tube | 10 |

### Standard BiPAP System with Monitoring Line

| | | |
|---|---|---|
| 038-35-292 | Smooth Bore 1.6m Breathing System with exhaust port and Pressure monitoring line | 10 |
| 038-35-295 | As above with 22mm corrugated tube | 10 |

### Standard BiPAP System with Split Monitoring Line

| | | |
|---|---|---|
| 038-35-293 | Smooth Bore 1.6m Breathing System with exhaust port and Pressure monitoring line | 10 |
| 038-35-297 | As above with 22mm corrugated tube | 10 |

## Intermittent Positive Pressure Breathing (IPPB) Breathing Systems

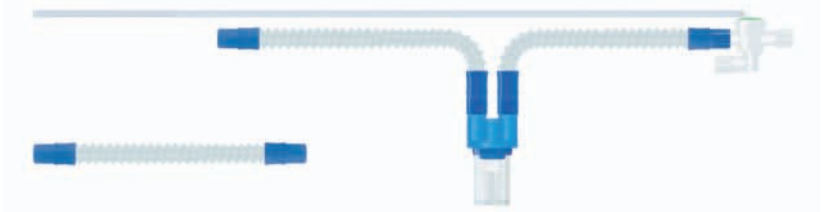
### Standard IPPB System

| | | |
|---|---|---|
| 038-35-310 | Smooth Bore 1.6m Breathing System with exhalation valve and line | 10 |

### Standard IPPB System with Monitoring Line

| | | |
|---|---|---|
| 038-35-312 | Smooth Bore 1.6m Breathing System with exhalation valve and line | 10 |

### IPPB Cold Humidification System



| | | |
|---|---|---|
| 038-35-314 | Smooth Bore 1.6m Breathing System with exhalation valve, line, water trap and Limb | 10 |

BiPAP is a registered trademark of Resperonics

# Non Invasive Ventilation Breathing Systems

## IPPB Cold Humidification System with Monitoring Line

| | | |
|---|---|---|
| 038-35-316 | Smooth Bore 1.6m Breathing System with exhalation valve, line, water trap and Limb | 10 |

## Heated Wire IPPB System

| | | |
|---|---|---|
| 038-35-318 | Heated Wire 1.6m Breathing System with exhalation valve, line and limb | 10 |

## Heated Wire IPPB System with Monitoring Line

| | | |
|---|---|---|
| 038-35-320 | Heated Wire 1.6m Breathing System with exhalation valve, line with pressure line and limb | 10 |

## Universal IPPB System

| | | |
|---|---|---|
| 038-35-322 | Nebulising IPPB circuit, Smooth Bore 1.6m Breathing System with exhalation vale, line & nebuliser | 10 |

## Universal IPPB System

| | | |
|---|---|---|
| 038-35-323 | Nebulising IPPB circuit, corrugated tube 1.6m Breathing System with exhalation vale, line & nebuliser | 10 |

# NEONATAL BREATHING SYSTEMS

## Neonatal Breathing Systems

Caring for our most delicate patients, Flexicare have developed a full range of ITU Breathing systems, Nasal Cannula, Anaesthetic accessories, Laryngoscopes, Endotracheal tubes and Resuscitators suitable for neonatal care.


Neonatal Breathing Systems
Introduction 79

Neonatal Cold Humidification Breathing Systems 81

Neonatal Universal Heated Wire Breathing Systems 81

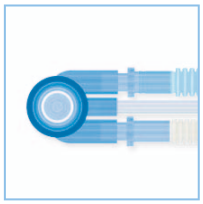
Neonatal Dual Heated Wire Breathing Systems 82

Neonatal Nitric Oxide Adaptor Kit 82

Humidification Chambers 82

# Neonatal Breathing Systems

Flexicare have designed a range of neonatal circuits for use in the NICU providing choice of active or passive humidification.



## Low Dead Space Neonatal Y-Piece

Very low dead space and rounded design reduces the risk of rebreathing (5.5 cubic cm/ml ). The self sealing suction port allows for suctioning the patient without affecting the delivery of fresh gases.

## Pressure Line

Fitted to the centre of the Y-Piece, it will measure the pressure in the circuit providing the most accurate information.

## Self Seal Water Trap

The self sealing water trap incorporates a non-return valve that protects against the accidental flow of any liquids from the water trap into the circuit.

## Heated Wire Limb

The inspiratory heated wire limb maintains the temperature and humidified fresh gases to the point of delivery at the patient end whilst reducing condensation in the circuit. This allows for saturated fresh gases to be delivered to the patient at the required temperature.

## 10mm Corrugated Tubing

The 10mm corrugated tubing with shallow corrugations reduces the resistance to flow while maintaining a low compliance and allowing for fast delivery of fresh gases to the patient. The lightweight of the tubing minimizes the drag on the patient. The structure of the 10mm corrugated tube allows the use of the circuit with oscillating ventilators.

## Monitoring Port

The detachable monitoring port can be moved close to the y-piece or moved further away when the circuit is used with incubated patients.

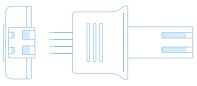
## 15mm Connectors

The neonatal range of circuits have standard fitting 15mm connectors.

## Choice of heated wire connector

Flexicare offers two different heated wire connectors to fit the specific heaters available.

Flying Lead Connection



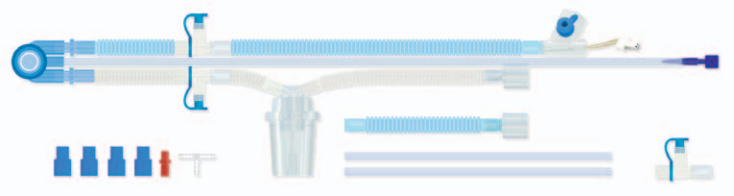
Clover Leaf Connection

# Neonatal Breathing Systems

## Neonatal Cold Humidification Breathing System

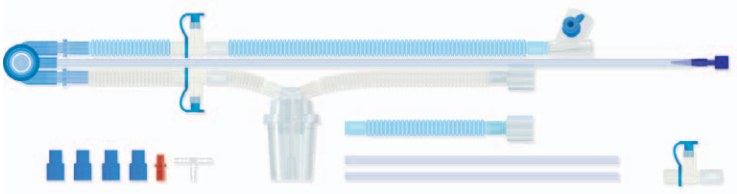
| | | |
|---|---|---|
| 038-03-315 | Neonatal Cold Humidification Breathing System with temperature port and pressure line. 10mm 1.8m corrugated tube with neonatal y-piece, pressure line, water trap, 4 flexible 15M/F connectors and 0.5m spare limb with flying lead connector | 20 |
| 038-03-315C | As above with auto-fill humidification chamber | 20 |

## Neonatal Universal Heated Wire Breathing System with Flying Lead Connection



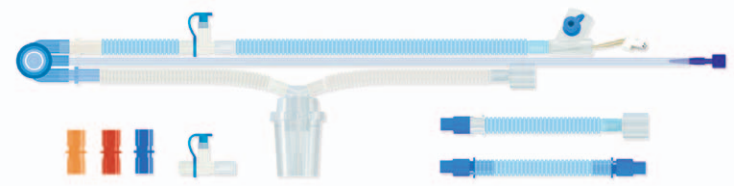
| | | |
|---|---|---|
| 038-03-310 | Neonatal Universal Heated Wire Breathing System with detachable inspiratory and expiratory temperature ports and pressure line (for use with incubators) 10mm 1.8m corrugated tube with neonatal y-piece, pressure line, water trap, 4 flexible connectors and 0.5m spare limb with flying lead connection | 20 |
| 038-03-310C | As above with auto-fill humidification chamber | 20 |

## Neonatal Universal Heated Wire Breathing System with Clover Leaf Connection



| | | |
|---|---|---|
| 038-03-311 | Neonatal Universal Heated Wire Breathing System with detachable inspiratory and expiratory temperature ports and pressure line (for use with incubators) 10mm 1.8m corrugated tube with neonatal y-piece, pressure line, water trap, 4 flexible connectors and 0.5m spare limb with clover leaf connection | 20 |
| 038-03-311C | As above with auto-fill humidification chamber | 20 |

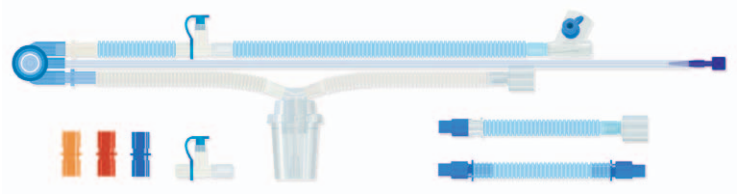
## Neonatal Heated Wire Breathing System with Clover Leaf Connection



| | | |
|---|---|---|
| 038-03-340 | Neonatal Heated Wire Breathing System with inspiratory temperature port and pressure line. 10mm corrugated tube with neonatal y-piece, pressure line, water trap, 2 flexible 15M/F connectors and 2 x 0.5m spare limbs with clover leaf connector | 20 |
| 038-03-340C | As above with auto-fill humidification chamber | 20 |

# Neonatal Breathing Systems

## Neonatal Heated Wire Breathing System with Flying Lead Connection

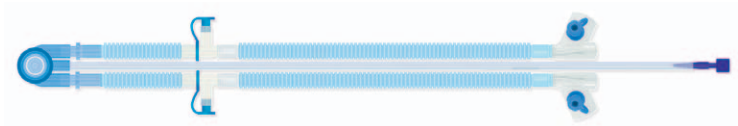


| | | |
|---|---|---|
| 038-03-341 | Neonatal Heated Wire Breathing System with inspiratory temperature port and pressure line. 10mm corrugated tube with neonatal y-piece, pressure line, water trap, 2 flexible 15M/F connectors and 2 x 0.5m spare limbs with clover leaf connector | 20 |
| 038-03-341C | As above with auto-fill humidification chamber | 20 |

## Neonatal Dual Heated Wire Breathing System with Flying Lead Connection

| | | |
|---|---|---|
| 038-03-345 | Neonatal Dual Heated Wire Breathing System with inspiratory and expiratory temperature ports, and pressure line with flying lead connector | 20 |
| 038-03-345C | As above with auto-fill humidification chamber | 20 |

## Neonatal Dual Heated Wire Breathing System with Clover Leaf Connection



| | | |
|---|---|---|
| 038-03-346 | Neonatal Dual Heated Wire Breathing System with inspiratory and expiratory temperature ports, and pressure line with clover leaf connector | 20 |
| 038-03-346C | As above with auto-fill humidification chamber | 20 |

## Neonatal Nitric Oxide Adapter Kit

| | | |
|---|---|---|
| 038-03-100 | Neonatal Nitric Oxide Adapter Kit | 20 |

## Humidification Chambers

MAXIMUM WATER LEVEL
CAUTION
Fill only with sterile water using the heater level marking as a guide.
Refill the chamber before it is totally empty.
Do not exceed maximum peak flow rate of 100-L/min.

Manual Fill Chamber

Auto Fill Chamber

| | | |
|---|---|---|
| 038-31-750 | Manual Fill Humidification Chamber<br>220ml Capacity | 20 |
| 038-31-740 | Auto Fill Humidification Chamber<br>210ml Capacity | 20 |

# BREATHING FILTERS

## LuerSafe, VentiShield B/V Filters, ThermoShield HMEF's, HepaShield, Filters and HME's

Our range of Breathing Filters and HMEF's include Adult Electrostatic Breathing Filters and HMEF's, Mini Electrostatic Breathing Filters and HMEF's, Adult and Paediatric Pleated Hydrophobic Bacterial/Viral Filters.

### Breathing Filters
Introduction ____ 84

### LuerSafe
Introduction ____ 85

### VentiShield B/V Filters
Mini VentiShield Filters ____ 87
Adult VentiShield Filters ____ 87

### ThermoShield HMEF's
Mini ThermoShield HMEF's ____ 88
Adult ThermoShield HMEF's ____ 89
Neonatal ThermoShield HME ____ 89

### HepaShield
HepaShield Mechanical Filters ____ 90

### Other Filters and HMEs
ThermoTrach Heat & Moisture Exchanger ____ 91
Pulmonary Function Test Filter ____ 91

# LuerSafe

The primary objective of breathing filters is to stop bacteria and viruses entering/leaving the patient. Electrostatic filters achieve this by holding onto micro-organisms through the static electric charge in the medium. The pleated paper filter also known as a mechanical filter achieves this by tightly packed layers of mixed strands of glass fibres physically preventing bacteria and viruses from passing through.

## Properties of Filters and HMEF's

When considering filters a number of important properties should be taken in to account and these are:

### 1. Filtration Efficiency

As many as 10-15% of intubated patients develop pneumonia at a level of 1-3% per day of intubation. These pneumonia's may prolong hospital stays by 4-9 days and contribute to as many as 15% of all hospital deaths.

From this it is evident that filtration efficiency is paramount to protect the patients and ventilators from cross contamination. Flexicare filters provide protection against bacteria and viruses at a very high level of efficiency. This level of effectiveness is independently tested and verified by the Health Protection Agency at Porton Down Salisbury, giving confidence in our filter properties. Flexicare filters will maintain the specified level of efficiency for the full recommended period of use.

### 2. Light Weight and Ergonomically Shaped

Flexicare Filters and HMEF's designs provide a rounded ergonomic shape to prevent pressure marking or discomfort for the patient. They are of light weight design thus reducing drag on breathing systems and are made of clear material allowing visual observation in terms of potential obstructions.

### 3. Humidification Abilities

To counteract the risk of actelectasis, epithelial damage and reduction of mucocillary transport, adequate humidification should be provided to long term intubated patients. HMEF's may not only act against these factors by providing humidification, their use is also thought to reduce the incidence of late onset Ventilator Associated Pneumonia compared to heated wire systems.

It is recommended that HMEF humidification levels should be at least 30mg/L $H_2O$ at an inspired air temperature of $30^{O}C$. All Flexicare HMEF's exceed this minimum by providing a maximum moisture output performance of 32.3mg/L $H_2O$ as independently tested and verified by the Medical Device Agency (MDA).

### 4. Minimal Dead Space and Minimal Pressure Drop

Design of the filter housing must provide the smallest dead space possible whilst at the same time allowing a good gas flow with minimal resistance (pressure drop) through the filter media. The design of Flexicare Filters and HMEF's has incorporated a balance of these critical requirements to create a filter with minimal resistance to flow while maintaining a low dead space.

without port

with tethered cap

with LuerSafe connection

All the values stated in the product specifications are supported by independent test results. The efficiency of the Flexicare and HepaShield filter is tested by the Health Protection Agency at Porton Down, Salisbury, UK. Testing was done for bacterial and viral efficiency using Bacillus Subtillis and MS-2 Coliphage. Moisture output and resistance were tested independently by MeDEC, Wales College of Medicine .

# LuerSafe™

LuerSafe breathing filters incorporate a unique cap-less self sealing luer port which will only accept the correct corresponding colour coded LuerSafe monitoring line to be fitted to open the valve and provide uninterrupted flow to sample $CO_2$ levels.

LuerSafe eliminates erroneous misconnections to standard luer connections such as IV tubing or other connectors ensuring a correct connection to the monitoring port only.

## Cap-less Design

The self sealing valve prevents air flow in and out of the filter when a monitoring line is not connected, eliminating the need to have a cap to be manually fixed and removed.

## Colour Coded Value

The LuerSafe Valve is visibly seen through the filter housing by its distinctive orange colour which can be easily matched to the correct corresponding colour coded monitoring line connector.

## Unique Design Luer Port

Eliminating the risk of misconnection by not accepting a standard luer connector. The unique size only fits the LuerSafe monitoring line identified by the colour coded connector.

To connect a CO2 monitoring line to a LuerSafe filter, locate the orange colour coded LuerSafe Monitoring Line Connector.

Insert the connector into the LuerSafe Port and rotate in a clockwise direction, depressing the valve until a secure lock is reached.

Verify that $CO_2$ readings are visible

To remove, unscrew the monitoring line and the valve will self seal.

# VentiShield™

## Electrostatic Filters

Electrostatic  filters use a medium constructed of permanently bipolar charged rectangular split fibres which are able to capture airborne particles. This type of filter is recommend for applications where high efficiency and low pressure drop is required. It offers excellent efficiency for anaesthetic breathing filters and pulmonary filters.

The adult VentiShield range of filters provide 99.999% efficiency within a compact, light weight rounded design ideal for patient end use with an ET Tube or Laryngeal Mask Airway.

## Universal Connections

The 22M/15F connectors comply to BS EN ISO 5356 standard.
The design of the filter connectors prevents fitting of filter in the wrong direction within the system.

## Reduced Drag on Breathing System

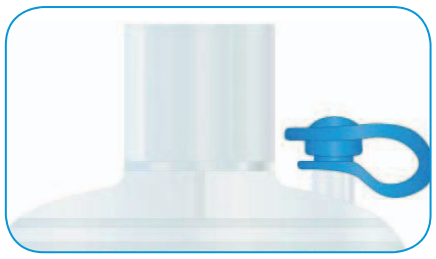
The light weight of Ventishield filters and HMEF reduces the drag on breathing system.

## Reduced Risk of Pressure Mark

The rounded shape with no sharp edges, reduces the risk of leaving pressure marks on the patient.

Wide choice available with LuerSafe port, standard luer lock port or without port.

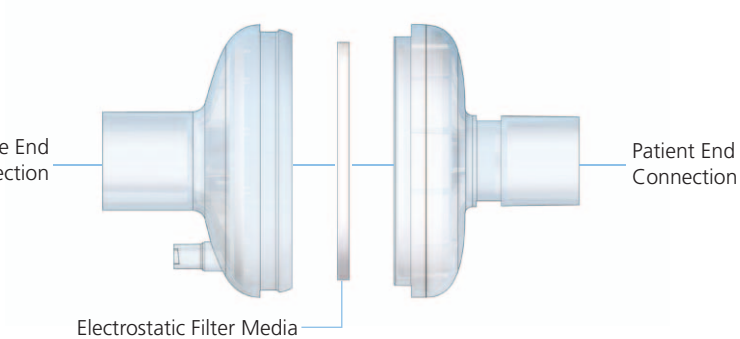
LuerSafe



Tethered Cap

Without Port

## Construction of Adult Electrostatic Breathing Filter



Available as a sterile packed product

# VentiShield

## Mini VentiShield Filter

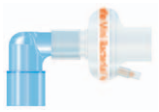
| | 038-42-360 | 038-42-365 | 038-42-366 | 038-42-366LS |
|---|---|---|---|---|
| Efficiency | 99.99% | 99.99% | 99.99% | 99.99% |
| Resistance 30L/min | 1.7cm $H_20$ | 1.7cm $H_20$ | 2.1cm $H_20$ | 2.1cm $H_20$ |
| Dead Space | 28ml | 28ml | 35ml | 35ml |
| Minimum Recommended VT | 90ml | 90ml | 110ml | 110ml |
| Weight | 19g | 20g | 25g | 25g |
| $CO_2$ Port | None | Tethered | Tethered | LuerSafe |

038-42-360

038-42-365

038-42-365LS

038-42-366


038-42-366LS

| | | |
|---|---|---|
| 038-42-360 | Mini Bacterial/Viral Filter | 50 |
| 038-42-365 | Mini Bacterial/Viral Filter (with tethered cap port) | 50 |
| 038-42-365LS | LuerSafe Mini Bacterial/Viral Filter | |
| 038-42-366 | Mini Bacterial/Viral Filter (with tethered cap port) + Low Profile Elbow (22M/15F) | 50 |
| 038-42-366LS | LuerSafe Mini Bacterial/Viral Filter (with self sealing port) + Low Profile Elbow (22M/15F) | 50 |

## Adult VentiShield Filter

| | 038-41-360 | 038-41-340 | 038-41-365 | 038-41-345 | 038-41-365LS | 038-41-345LS | 038-41-366 | 038-41-366LS |
|---|---|---|---|---|---|---|---|---|
| Efficiency | 99.999% | 99.999% | 99.999% | 99.999% | 99.999% | 99.999% | 99.999% | 99.999% |
| Resistance: 30L/min<br>60l/min<br>90L/min | 1.2cm $H_20$<br>3.9cm $H_20$<br>6.1cm $H_20$ | 1.1cm $H_20$<br>3.3cm $H_20$<br>5.4cm $H_20$ | 1.2cm $H_20$<br>3.9cm $H_20$<br>6.1cm $H_20$ | 1.1cm $H_20$<br>3.3cm $H_20$<br>5.4cm $H_20$ | 1.2cm $H_20$<br>3.9cm $H_20$<br>6.1cm $H_20$ | 1.1cm $H_20$<br>3.3cm $H_20$<br>5.4cm $H_20$ | 1.6cm $H_20$<br>4.0cm $H_20$<br>9.1cm $H_20$ | 1.6cm $H_20$<br>4.0cm $H_20$<br>9.1cm $H_20$ |
| Dead Space | 69ml | 62ml | 69ml | 62ml | 69ml | 62ml | 76ml | 76ml |
| Recommended VT | 210ml | 190ml | 210ml | 190ml | 210ml | 190ml | 220ml | 220ml |
| Weight | 30g | 30g | 31g | 32g | 31g | 31g | 39g | 39g |
| $CO_2$ Port | None | None | Tethered | Tethered | LuerSafe | LuerSafe | Tethered | LuerSafe |

038-41-360

038-41-340

038-41-365

038-41-345

038-41-365LS

038-41-345LS

038-41-366

038-41-366LS

| | | |
|---|---|---|
| 038-41-360 | Adult Bacterial/Viral Filter | 50 |
| 038-41-340 | Adult Angled Bacterial/Viral Filter | 50 |
| 038-41-365 | Adult Bacterial/Viral Filter (with tethered cap port) | 50 |
| 038-41-345 | Adult Angled Bacterial/Viral Filter (with tethered cap port) | 50 |
| 038-41-365LS | LuerSafe Adult Bacterial/Viral Filter (with self sealing port) | 50 |
| 038-41-345LS | LuerSafe Adult Angled Bacterial/Viral Filter (with self sealing port) | 50 |
| 038-41-366 | Adult Bacterial/Viral Filter (with tethered cap port) + Low Profile Elbow (22M/15F) | 50 |
| 038-41-366LS | LuerSafe Adult Bacterial/Viral Filter (with self sealing port) + Low Profile Elbow (22M/15F) | 50 |

# ThermoShield™

## HMEFs

HMEs use the patients own moisture and humidity from expiration to humidify anaesthetic gases during inspiration. When a patient is intubated, the upper airway is bypassed and results in a loss of humidification of inspired air. Dry gases can have adverse effects and thus to prevent causing the patient trauma HMEF's play the role of acting as the humidifier in lieu of the upper airway. To counter act the risk of actelectasis, epithelial damage and reduction of mucocillary transport, adequate humidification should be provided to long term intubated patients

ThermoShield HMEFs provide a high moisture output protecting patients against the adverse effects of prolonged dry gas exposure.

## Universal Connections

The 22M/15F connectors comply to BS EN ISO 5356 standard. The design of the filter connectors prevents fitting of filter in the wrong direction within the system.

## Secure Luer Lock

The tethered Luer Lock cap is a push fit design which is easy to operate and secured with a strap, eliminating the risk of misplacement or accidental loss.

## Reduced Risk of Pressure Mark

The rounded shape with no sharp edges, reduces the risk of leaving pressure marks on the patient.

## Mini VentiShield Filter

| | 038-42-350 | 038-42-355 | 038-42-355LS | 038-42-356 | 038-42-356LS | 038-42-357 |
|---|---|---|---|---|---|---|
| Efficiency | 99.99% | 99.99% | 99.99% | 99.99% | 99.99% | 99.99% |
| Humidification | 31mg/l air | 31mg/l air | 31mg/l air | 31mg/l air | 31mg/l air | 31mg/l air |
| Resistance 30L/min | 1.7cm $H_20$ | 1.7cm $H_20$ | 1.7cm $H_20$ | 2.1cm $H_20$ | 2.1cm $H_20$ | 2.1cm $H_20$ |
| Dead Space | 28ml | 28ml | 28ml | 35ml | 35ml | 46-64ml |
| Recommended VT | 90ml | 90ml | 90ml | 105ml | 105ml | 150ml |
| Weight | 22g | 23g | 25g | 30g | 32g | 41g |
| $CO_2$ Port | None | Tethered | LuerSafe | Tethered | LuerSafe | Tethered |

038-42-350

038-42-355

038-42-355LS

038-42-356

038-42-356LS

038-42-357

| | | |
|---|---|---|
| 038-42-350 | Mini Bacterial/Viral Filter + HME | 50 |
| 038-42-355 | Mini Bacterial/Viral Filter + HME (with tethered cap port) | 50 |
| 038-42-355LS | LuerSafe Mini Bacterial/Viral Filter + HME (with self sealing port) | 50 |
| 038-42-356 | Mini Bacterial/Viral Filter + HME (with tethered cap port) + Low Profile Elbow (22M/15F) | 50 |
| 038-42-356LS | LuerSafe Mini Bacterial/Viral Filter + HME (with self sealing port) + Low Profile Elbow (22M/15F) | 50 |
| 038-42-357 | Mini Bacterial/Viral Filter (with tethered cap port)+ Expandable Catheter Mount with Double Swivel Elbow & Elastomeric Cap | 50 |

# ThermoShield HMEF's

## Adult VentiShield Filter

| | 038-41-350 | 038-41-330 | 038-41-355 | 038-41-335 | 038-41-355LS | 038-41-335LS | 038-41-356 | 038-41-357 | 038-41-359 |
|---|---|---|---|---|---|---|---|---|---|
| Efficiency | 99.999% | 99.999% | 99.999% | 99.999% | 99.999% | 99.999% | 99.999% | 99.999% | 99.999% |
| Humidification | 32mg/l air | 32mg/l air | 32mg/l air | 32mg/l air | 32mg/l air | 32mg/l air | 32mg/l air | 32mg/l air | 32mg/l air |
| Resistance<br>30L/min<br>60l/min<br>90L/min | <br>1.4cm $H_20$<br>4.8cm $H_20$<br>7.2cm $H_20$ | <br>1.6cm $H_20$<br>4.9cm $H_20$<br>7.2cm $H_20$ | <br>1.4cm $H_20$<br>4.8cm $H_20$<br>7.2cm $H_20$ | <br>1.6cm $H_20$<br>4.9cm $H_20$<br>7.2cm $H_20$ | <br>1.4cm $H_20$<br>4.8cm $H_20$<br>7.2cm $H_20$ | <br>1.6cm $H_20$<br>4.9cm $H_20$<br>7.2cm $H_20$ | <br>1.6cm $H_20$<br>3.6cm $H_20$<br>8.5cm $H_20$ | <br>1.9cm $H_20$<br>4.1cm $H_20$<br>9.5cm $H_20$ | <br>1.7cm $H_20$<br>6.7cm $H_20$<br>9.1cm $H_20$ |
| Dead Space | 69ml | 62ml | 69ml | 62ml | 69ml | 62ml | 76ml | 96ml | 87-105ml |
| Min Recom Tv | 210ml | 190ml | 210ml | 190ml | 210ml | 190ml | 230ml | 300ml | 270ml |
| Weight (g) | 38g | 39g | 39g | 40g | 39g | 41g | 36g | 46g | 47g |
| $CO_2$ Port | None | None | Tethered | Tethered | LuerSafe | LuerSafe | Tethered | Tethered | Tethered |

038-41-350

038-41-330

038-41-355

038-41-335

038-41-355LS

038-41-335LS

| | | |
|---|---|---|
| 038-41-350 | Adult Bacterial/Viral Filter + HME | 50 |
| 038-41-330 | Adult Angled Bacterial/Viral Filter + HME | 50 |
| 038-41-355 | Adult Bacterial/Viral Filter + HME (with tethered cap port) | 50 |
| 038-41-335 | Adult Angled Bacterial/Viral Filter + HME (with tethered cap port) | 50 |
| 038-41-355LS | LuerSafe Adult Bacterial/Viral Filter + HME (with self sealing port) | 50 |
| 038-41-335LS | LuerSafe Adult Angled Bacterial/Viral Filter + HME (with self sealing port) | 50 |

038-41-356

038-41-357

038-41-359

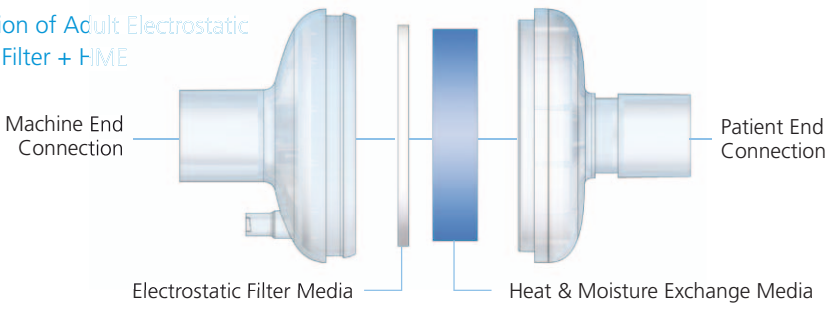
| | | |
|---|---|---|
| 038-41-356 | Adult Bacterial/Viral Filter + HME (with tethered cap port) + Low Profile Elbow (22M/15F) | 50 |
| 038-41-357 | Adult B/V Filter + HME (with tethered cap port) + 15mm tube + Low Profile Elbow (22M/15F) | 50 |
| 038-41-359 | Adult Bacterial/Viral Filter (with tethered cap port) + Expandable Catheter Mount with Double Swivel Elbow & Elastomeric Cap | 50 |

## Neonatal HME

| | Humidification | Resistance | Dead Space | Weight |
|---|---|---|---|---|
| 038-43-150 | 30mg/l air | 0.6cm $H_20$ at 10L/min | 2.1ml | 3.6g |

| | | |
|---|---|---|
| 038-43-150 | Neonatal HME Sterile | 25 |

## Construction of Adult Electrostatic Breathing Filter + HME



Available as a sterile packed product

## Adult Pleated Hydrophobic Bacterial/Viral Filters

HepaShield is a mechanical filter with 99.99999% efficiency providing superior filtration. The pleated filter media is specifically packed to maximise flow of gases through the filter casing to ensure that the surface area is fully utilised.

HepaShield™

### Universal Connection

The 22M/15F connectors comply to BS EN ISO 5356 standard.

### Secure Luer Lock

The tethered Luer Lock cap is of a push fit design which is easy to operate and is secured with a strap, eliminating the risk of misplacement or accidental loss.

### Reduced Risk of Pressure Mark

The rounded edges of the filter reduce the risk of leaving pressure marks on the patient.

### Reduced Drag on Breathing Systems

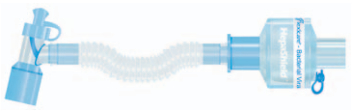
The weight of HepaShield reduces the drag on Breathing Systems.

| | 038-41-370 | 038-41-375 | 038-41-376 | 038-42-380 | 038-42-385 | 038-42-386 |
|---|---|---|---|---|---|---|
| Efficiency | 99.99999% | 99.99999% | 99.99999% | 99.99999% | 99.99999% | 99.99999% |
| Humidification | 25mg/l air | 25mg/l air | 25mg/l air | 25mg/l air | 25mg/l air | 25mg/l air |
| Resistance: 30L/min<br>60l/min | 1.4cm $H_20$<br>3.3cm $H_20$ | 1.4cm $H_20$<br>3.3cm $H_20$ | 1.4cm $H_20$<br>3.3cm $H_20$ | 2.7cm $H_20$ | 2.7cm $H_20$ | 2.8cm $H_20$ |
| Dead Space | 50ml | 50ml | 74-85ml | 38ml | 38ml | 56-74ml |
| Minimum VT | 250ml | 250ml | 250ml | 120ml | 120ml | 180ml |
| Weight | 42g | 43g | 61g | 26g | 29g | 47g |
| $CO_2$ Port | None | Tethered | Tethered | None | Tethered | Tethered |

### Adult Pleated Hydrophobic Bacterial/Viral Filter

038-41-370

038-41-375



038-41-376

| | | |
|---|---|---|
| 038-41-370 | Adult Pleated Hydrophobic Bacterial/Viral Filter | 50 |
| 038-41-375 | Adult Pleated Hydrophobic Bacterial/Viral Filter (with tethered cap port) | 50 |
| 038-41-376 | Adult Pleated Hydrophobic B/V Filter(with tethered cap port)+ Expandable Catheter Mount with Double Swivel Elbow + Elastomeric Cap | 50 |

### Paediatric Pleated Hydrophobic Bacterial/Viral Filter

038-41-380

038-41-385

038-41-386

| | | |
|---|---|---|
| 038-42-380 | Paediatric Pleated Hydrophobic Bacterial/ Viral Filter | 50 |
| 038-42-385 | Paediatric Pleated Hydrophobic Bacterial/Viral filter (with tethered cap port) | 50 |
| 038-42-386 | Paediatric Pleated Hydrophobic Bacterial/Viral Filter (with tethered cap port) | 50 |

ThermoTrach™

## ThermoTrach™ Heat and Moisture Exchanger

Heat Moisture Exchanger (HME) for spontaneous breathing patients, for use with a tracheostomy tube.

### 15mm Female Connector

The standard 15mm connector can be used with all tracheostomy tubes.

### Clear Construction

Allows for visual inspection of potential build up of secretions which can block the airway.

### Self Sealing Suction Port & Integral Cough Vent

The integrated self sealing suction port provides ease of inserting a suction catheter. The vent can open during vigorous coughing, allowing the thick mucosal secretions to be expelled, avoiding blocking of the airway.

### Swivel Oxygen Connector

The ThermoTrach swivel oxygen connector allows for supplementary oxygen tubing to be connected and placed in the most comfortable position for the patient, reducing the risk of disconnection, kinking and patient drag.

### Anatomical Curved Design

The curved design follows the contour of the neck.

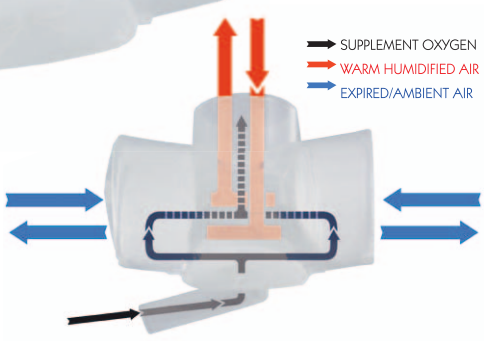



Diagram representing the Heat & Moisture exchange process.

| | | | |
|---|---|---|---|
| Moisture Return | 32.0mg $H_20$ at 15 breath/min | Resistance | 0.11cm $H_20$ at gas flow rate 30L/min 1.0cm $H_20$ at gas flow rate 60L/min |
| Volume/Dead Space | 17ml | Weight | 5.1g |

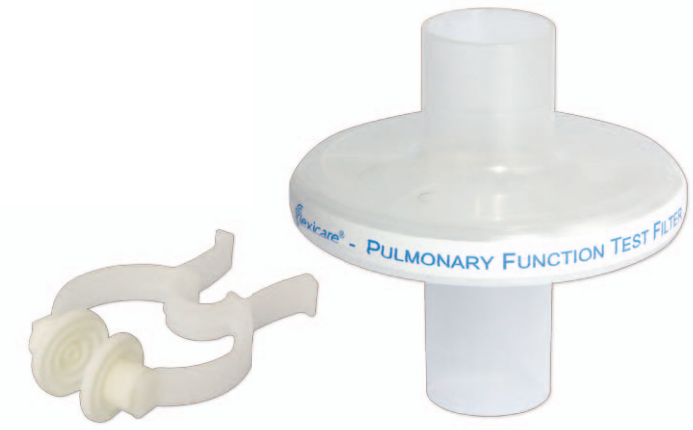
| | | |
|---|---|---|
| 038-41-250 | Thermotrach Heat and Moisture Exchanger | 50 |

## Pulmonary Function Test Filter

Protecting both patient and pulmonary function testing equipment, Flexicare have developed a PFT Filter to reduce the risk of cross-contamination between patients and equipment with minimal resistance to ensure that the test results are as accurate as possible. Reducing the risk of transmitting respiratory pathogens with the use of the Flexicare PFT Filter during normal breathing or forced vital capacity testing meets the ATS recommendations for resistance in PFT equipment.

- Single Patient Use
- Low Resistance
- Cost Effective
- Nose Clip

| | |
|---|---|
| Efficiency | 99.99999% |
| Resistance | 0.4cm $H_20$ at 30L/min 1.0cm $H_20$ at 60L/min |
| Volume/Dead Space | 135ml |
| Weight | 41g |
| Height | 250ml |




| | | |
|---|---|---|
| 038-41-395 | Pulmonary Function Test Filter | 50 |
| 038-41-394 | Nose Clip for use with Pulmonary Function Test Filter | 50 |

## Recommended Reading


1. Hedley RM, Allt-Graham J.
Heat and moisture exchangers and breathing filters.
Br J Anaesth 1994, 73:227-236

2. Le Bourdelles G, Mier L, Fiquet B, et al.
Comparison of the effects of heat and moisture exchangers and heated humidifiers on ventilation and gas exchangers during weaning trials from mechanical ventilation.
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3. Ackerstaff AH, Hilgers FJ, Aaronson NK, et al.
Improvements in respiratory and psychosocial functioning following total laryngectomy by the use of a heat and moisture exchanger. Ann Otol Rhinol Laryngol 1993;102:878-83

4. Pelosi P, Solca M, Ravagnan I, et al.
Effects of heat and moisture exchangers on minute ventilation, Ventilatory drive, and work of breathing during pressure-support ventilation in acute respiratory failure. Crit Care Med 1996, 24:1184-1188 Br. J Anaesth, jan 1, 2003;90 (1): 1-3

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8. Conti G, Dr Blasi RA, Rocco M. et al.
Effects of the heat-moisture exchangers on dynamic hyperinflation of mechanically ventilated COPD patients.
Intens Care Med 1990, 16:144-443


## References


1. Skerit S.J. Associate Professor of medicine, Division of pulmonary & Critical Care Medicine, University of Washington. Seattle, USA.

2. Kirton et al(1997) Aprospective Randomised comparison of an inline Heat and Moisture Exchanger filter and heated wire Humidifiers chest/112/4/October 1997

3. American Association of Respiratory Care AARC, Respiratory 1992; 887-890 (N.B There is no International Standard BS EN ISO 9360-1:2000

4. MDA Breathing Systems Evaluation 02069

# OXYGEN & AEROSOL THERAPY

## Fixed and Variable Concentration, Post Operative and Aerosol Therapy

Flexicare's Oxygen and Aerosol Therapy products include Variable Concentration Oxygen Masks, Fixed Concentration Oxygen Masks, Post Operative Oxygen Therapy, Nebulisers and Nebuliser Kits

### Oxygen and Aerosol Therapy

Principles of Oxygen and Aerosol Therapy ____ 94

### Fixed Concentration

Ventimask ____ 96

Single Venturi Masks ____ 97

Aerosol Masks, Multi Venturi Masks & Venturi Barrels ____ 98

### Variable Concentration

Medium Concentration Masks ____ 100

Nasal Cannula & Nasal Catheters ____ 101

Non Re-Breathing Masks ____ 102

### Post Operative

Tracheostomy Mask & Humidifier ____ 103

Gilston T-Pieces ____ 103

Post Operative Oxygen Therapy T-Pieces ____ 103

FCOT ____ 104

Dual Nasal Cannula ____ 106

Dual Mask ____ 107

### Aerosol Therapy

MaxiNeb Nebuliser ____ 108

MaxiNeb Compressor ____ 109

MaxiNeb Compact ____ 110

Tubing, Connectors & Water Traps ____ 111

Humidity Adaptor ____ 112

Bubble Humidifier ____ 112

# Principles of Oxygen Therapy

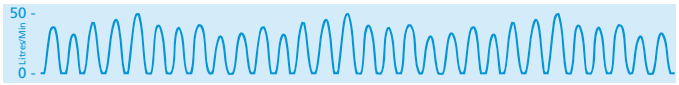
Oxygen is the most important single substance in animal biology. It constitutes nearly 50% of the mass of our planet, 21% of the air we breathe, 50% of rock and 89% of water. Yet it took man a surprisingly long time to discover the significance of oxygen in terms of combustion, respiration and animal metabolism. Oxygen is essential for normal respiration in aerobic organisms. Upon entering the lungs, $O_2$ molecules dissolve in the lipid and aqueous phase of tissues and diffuses across alveolar membranes and into alveolar capillaries. The vast majority of oxygen is bound to haemoglobin and only a small fraction, less than 2% is dissolved in the plasma. Following the transport to various tissues, oxygen diffuses into the cells for metabolism.

## Oxygen Administration Methods

Oxygen therapy devices for the spontaneously breathing patient fall into two categories, Variable Performance and Fixed Performance.

### 1. Variable Performance

These devices administer uncontrolled oxygen therapy, because the patient creates the inspired mixture by the act of breathing. Examples of these are nasal catheters, nasal cannulae and mask shells with or without a rebreathing bag (see pictures below). Various factors cause unpredictability in knowledge and control of inspired oxygen concentration when using these devices. Firstly, because the oxygen flow is less than the patient's inspiratory flow, the patient obtains some oxygen and some air, but in unknown proportion because normal breathing has an irregular pattern:




The resulting oxygen concentration varies not only on a breath by breath basis, but also from patient to patient. Secondly, the size of the mask, size and placement of the vents and fit of the mask to the face will cause variation in inspired oxygen concentrations.

### Variable Performance Devices:

Low Capacity Mask Shell

Nasal Cannula

High Capacity Systems

Nasal Catheter

The disadvantage of using a variable performance device is that blood gas values cannot be easily interpreted since they only reflect performance variation of the mask/patient interface rather than a true change in the condition of the lungs under treatment.

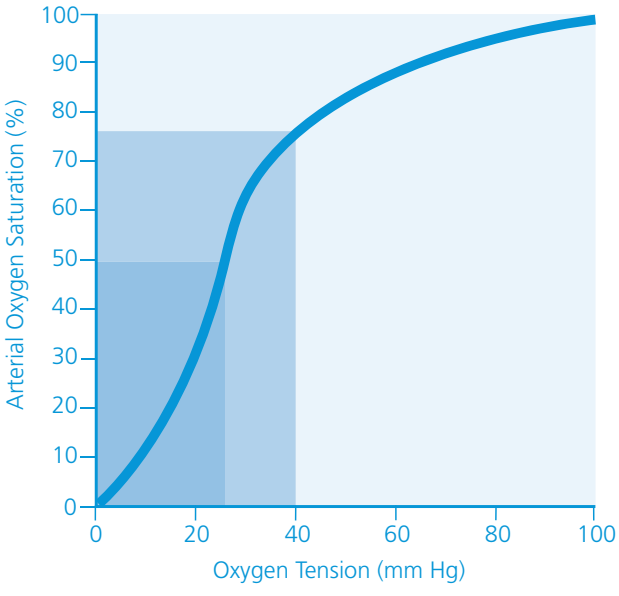
### 2. Fixed Performance

These devices allow controlled (known, fixed and selectable) oxygen dosage. They create a constant proportion of air/oxygen mixture in excess of patient inspiratory flow rate and are independent of patient factors or fit to the face. With gas flow constantly in excess of patient demand and with enhanced $CO_2$ washout, rebreathing is virtually eliminated.

### Fixed Performance Devices:

To work efficiently and to prevent air dilution a fixed performance device should incorporate:
a) A large volume face piece (not less than 280ml)
b) Gas mixture flowing directly towards the nose and mouth
c) Vents positioned well away from the patient airway.
Fixed performance devices are sometimes referred to as venturi or air entrainment masks.

### Oxyhaemoglobin Dissociation Curve

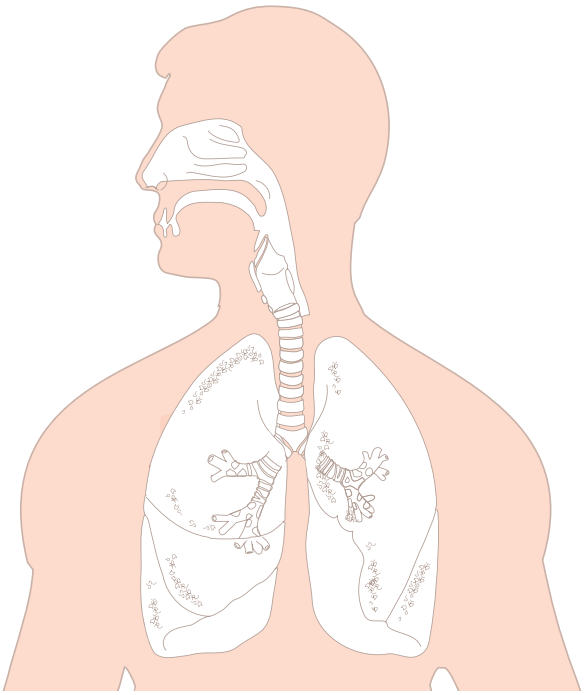


# Principles of Aerosol Therapy

Medication Nebulisers - also referred to as small volume or jet nebulisers (SVN) are devices used to turn medication into an aerosolized mist to deliver directly into the patient's lungs. Inhaled aerosols have considerable advantages in the treatment of many lung diseases including bronchitis and cystic fibrosis. The required dose is much smaller compared to that taken systemically and the side effects are therefore negligible. The onset of the action is quicker, and the drug itself is more selective.

Nebuliser Performance - Important characteristics of nebuliser performance include the aerosol particle size generated, drug output, nebulising time and the amount of drug delivered to the patient. Device construction, fill volume, flow temperature, humidity of the driving gas are factors affecting the performance of a nebuliser.

Particle Size is an important characteristic of nebuliser performance. Large particles do not reach the lower respiratory tract depositing themselves in the mouth, upper airways and gastric tract. Particles too small will not be taken up by the alveoli and are exhaled. Respirable particles taking part in lung deposition has been accepted to range from 0.5 microns to 5.0 microns in diameter size.



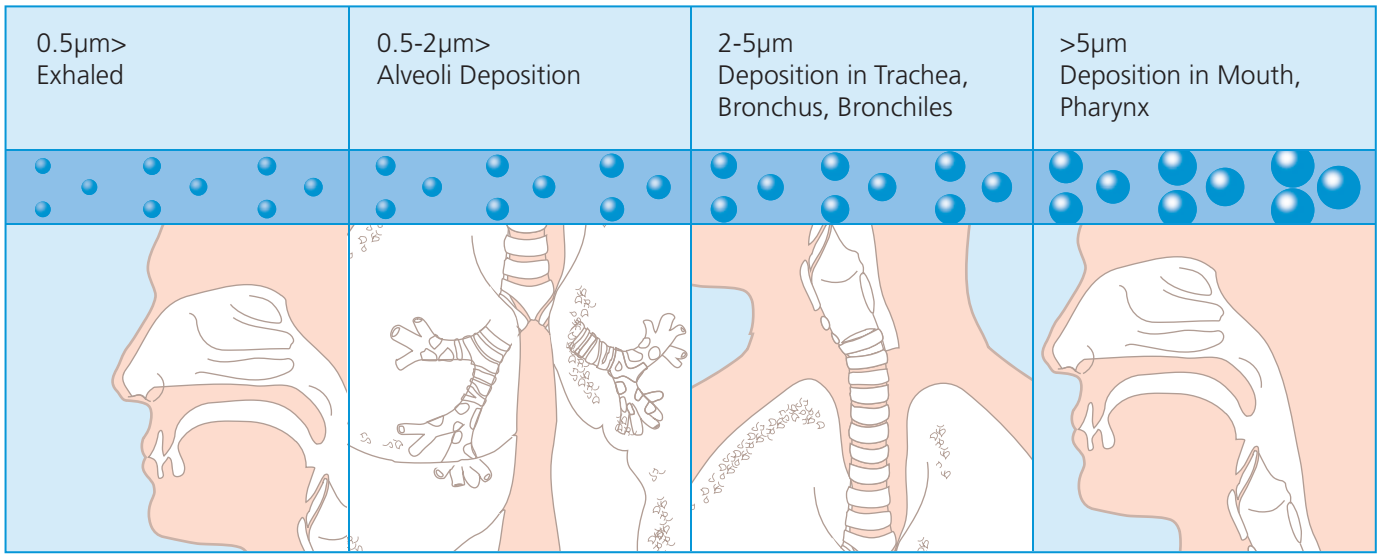
Dead Volume is the volume of medication not delivered to the patient during nebulisation and exists as the volume left in the nebuliser at the end of nebulisation.

Respirable Mass is the combination of aerosolized drug output and the percentage of particles in the respirable range. This is the amount of aerosolized drug available to the patient on inspiration.

Reconcentration in a SVN is greater at a diluent volume of 2ml than one of 4ml and for that reason it is suggested 4ml maybe superior than 2ml as a diluent formula.

Nebulising Time is the time from starting nebulisation until continuous nebulisation has ceased and depends on the flow rate, compressed air and the construction of the nebuliser. These are a major influence on aerosol size distribution. Optimal flow rates recommended are between 6-8 litres per minute, with 8 l/min providing a smaller particle size and shorter nebuliser time, the time it takes for the volume to completely nebulise. A SVN should deliver at least 80% of the solution within 15 minutes.

## Aerosol Particle Deposition



# Fixed Concentration

## Ventimask

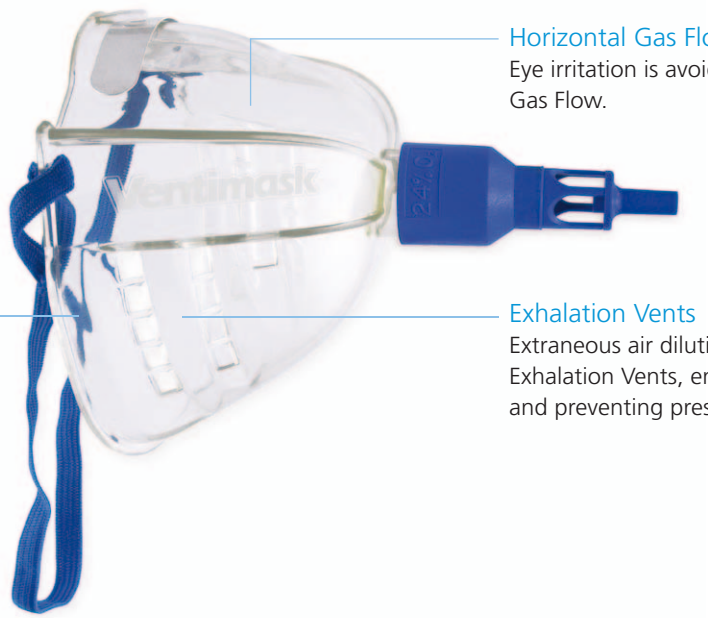
Clinically Proven... "only Ventimask is able to provide a fixed and predictable oxygen concentration with changing and variable breathing patterns." Ventimask is the accepted standard for controlled oxygen therapy for exact oxygen concentration delivery, optimum clinical performance with greater patient acceptability.

Ventimask®

### Large Capacity
Air dilution is minimised due to large capacity 280ml face piece.

### Soft and Flexible
The construction of the facemask ensures maximum comfort during sleep.

### Latex Free Straps
Latex free elastic straps eliminate the risk of allergic reactions.



### Horizontal Gas Flow
Eye irritation is avoided due to Horizontal Gas Flow.

### Exhalation Vents
Extraneous air dilution is greatly reduced by Exhalation Vents, enhancing $CO_2$ washout and preventing pressure build up.

## Ventimask without Venturi Barrel

| | | |
|---|---|---|
| 037-10-007 | Ventimask no Venturi | 50 |

## Ventimask with Venturi Barrel

| | | | |
|---|---|---|---|
| 037-10-001 | Ventimask with 24% Blue Venturi (2 lites/minute) | | 50 |
| 037-10-002 | Ventimask with 28% White Venturi (4 litres/minute) | | 50 |
| 037-10-010 | Ventimask with 31% Orange Venturi (6 litres/minute) | | 50 |
| 037-10-003 | Ventimask with 35% Yellow Venturi (8 litres/minute) | | 50 |
| 037-10-004 | Ventimask with 40% Red Venturi (10 litres/minute) | | 50 |
| 037-10-005 | Ventimask with 60% Green Venturi (15 litres/minute) | | 50 |
| 037-10-006 | Ventimask with 28% White Venturi in situ (2 litres/minute - for use at home) | | 40 |

## Ventimask $O_2$ Concentration Sets

Low O2 Set

High O2 Set

| | | |
|---|---|---|
| 037-10-008 | Ventimask Low O2 Concentration Set with 24%, 28%, 31% & 35% Venturies | 50 |
| 037-10-009 | Ventimask High O2 Concentration Set with 40% & 60% Venturies | 50 |

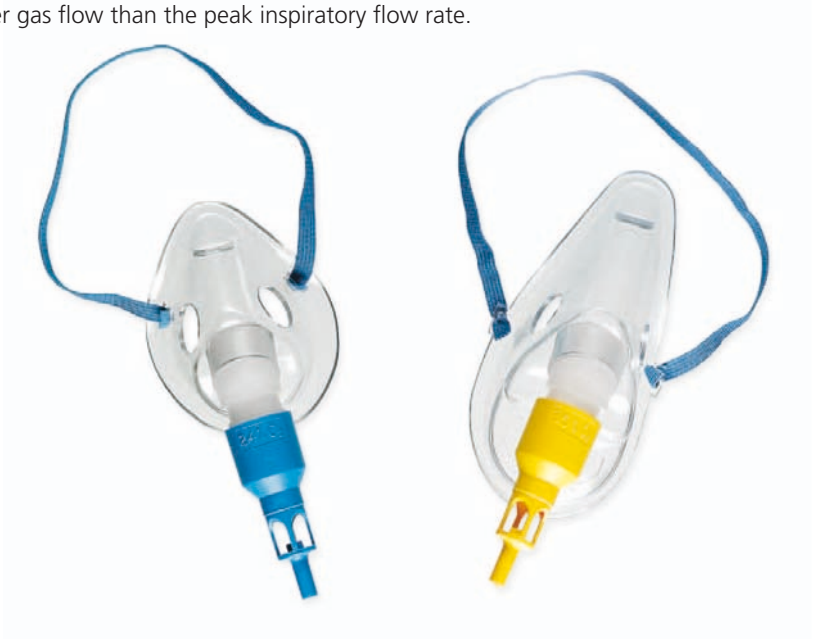
## Ventimask with 6 Venturies

| | | |
|---|---|---|
| 037-10-012 | Ventimask with 6 Venturies 24%, 28%, 31%, 35%, 40% & 60% | 40 |

# Fixed Concentration

## Single Venturi Masks

These masks, sometimes called High Air Flow Oxygen Enrichment (HAFOE) masks incorporate a Venturi Barrel and use the Bernoulli principle to deliver a predetermined and fixed concentration of oxygen. This is provided to the patient regardless of their respiratory pattern, y providing a higher gas flow than the peak inspiratory flow rate.



## Adult Venturi Masks

| | | | |
|---|---|---|---|
| 032-10-040 | Adult Venturi Mask 24% | | 50 |
| 032-10-040T | Adult Venturi Mask 24% with Tubing | | 50 |
| 032-10-041 | Adult Venturi Mask 28% | | 50 |
| 032-10-041T | Adult Venturi Mask 28% with Tubing | | 50 |
| 032-10-048 | Adult Venturi Mask 31% | | 50 |
| 032-10-048T | Adult Venturi Mask 31% with Tubing | | 50 |
| 032-10-042 | Adult Venturi Mask 35% | | 50 |
| 032-10-042T | Adult Venturi Mask 35% with Tubing | | 50 |
| 032-10-043 | Adult Venturi Mask 40% | | 50 |
| 032-10-043T | Adult Venturi Mask 40% with Tubing | | 50 |
| 032-10-044 | Adult Venturi Mask 60% | | 50 |
| 032-10-044T | Adult Venturi Mask 60% with Tubing | | 50 |

## Paediatric Venturi Masks

| | | | |
|---|---|---|---|
| 032-10-050 | Paediatric Venturi Mask 24% | | 50 |
| 032-10-050T | Paediatric Venturi Mask 24% with Tubing | | 50 |
| 032-10-051 | Paediatric Venturi Mask 28% | | 50 |
| 032-10-051T | Paediatric Venturi Mask 28% with Tubing | | 50 |
| 032-10-058 | Paediatric Venturi Mask 31% | | 50 |
| 032-10-058T | Paediatric Venturi Mask 31% with Tubing | | 50 |
| 032-10-052 | Paediatric Venturi Mask 35% | | 50 |
| 032-10-052T | Paediatric Venturi Mask 35% with Tubing | | 50 |
| 032-10-053 | Paediatric Venturi Mask 40% | | 50 |
| 032-10-053T | Paediatric Venturi Mask 40% with Tubing | | 50 |
| 032-10-054 | Paediatric Venturi Mask 60% | | 50 |
| 032-10-053T | Paediatric Venturi Mask 60% with Tubing | | 50 |

# Fixed Concentration

## Aerosol Masks, Multi Venturi Masks & Venturi Barrels

When the required concentration needs to change during oxygen therapy, the adult aerosol mask, with the choice of 6 venturies or a multi venturi mask kit will offer the choice to suit the individual patients requirements. The aerosol mask can be used with a nebuliser or 22mm corrugated tubing for combined oxygen therapy and humidification.

Available with Nose Clip

## Adult Aerosol Masks and Venturies

| | | |
|---|---|---|
| 032-10-006 | Adult Aerosol Mask | 50 |
| 032-10-006SM | Small Adult Aerosol Mask | 50 |
| 032-10-006NC | Adult Aerosol Mask with Nose Clip | 50 |
| 032-10-026 | Adult Mask with 2 Venturies 40% & 60% | 50 |
| 032-10-027 | Adult Mask with 2 Venturies 40% & 60% with Tubing | 50 |
| 032-10-024 | Adult Mask with 4 Venturies 24%, 28%, 35% & 40% | 50 |
| 032-10-025 | Adult Mask with 4 Venturies 24%, 28%, 35% & 40% with Tubing | 50 |
| 032-10-028 | Adult Mask with 5 Venturies 24%, 28%, 35%, 40% & 60% | 50 |
| 032-10-028T | Adult Mask with 5 Venturies 24%, 28%, 35%, 40% & 60% with Tubing | 50 |
| 032-10-028NC | Adult Mask with 5 Venturies 24%, 28%, 35%, 40% & 60% with Nose Clip | 50 |

## Paediatric Aerosol Mask and Venturies

| | | |
|---|---|---|
| 032-10-010 | Paediatric Aerosol Mask | 50 |
| 032-10-055T | Paediatric Mask with 6 Venturies - 24, 28, 31, 35, 40 & 60% with Tubing | 50 |

## Venturi Barrels

| | | | |
|---|---|---|---|
| 034-10-026 | Venturi Barrel 24% Blue | | 50 |
| 034-10-027 | Venturi Barrel 28% White | | 50 |
| 034-10-032 | Venturi Barrel 31% Orange | | 50 |
| 034-10-028 | Venturi Barrel 35% Yellow | | 50 |
| 034-10-029 | Venturi Barrel 40% Red | | 50 |
| 034-10-030 | Venturi Barrel 60% Green | | 50 |
| 034-10-031 | Blank Venturi (Oxygen Connector) | | 40 |

# Fixed Concentration

## Venturi Barrels with Reservoir Tube

| | | |
|---|---|---|
| 034-10-026C | Venturi Barrel 24% Blue with Reservoir Tube | 50 |
| 034-10-027C | Venturi Barrel 28% White with Reservoir Tube | 50 |
| 034-10-032C | Venturi Barrel 31% Orange with Reservoir Tube | 50 |
| 034-10-028C | Venturi Barrel 35% Yellow with Reservoir Tube | 50 |
| 034-10-029C | Venturi Barrel 40% Red with Reservoir Tube | 50 |
| 034-10-030C | Venturi Barrel 60% Green with Reservoir Tube | 50 |

## Adult Venturi Masks with Reservoir Tubing

| | | |
|---|---|---|
| 032-10-040C | Adult Venturi Mask 24% Blue with Adult Aerosol Mask and Reservoir Tube | 50 |
| 032-10-040CT | As above supplied with Oxygen tubing | 50 |
| 032-10-041C | Adult Venturi Mask 28% White with Adult Aerosol Mask and Reservoir Tube | 50 |
| 032-10-041CT | As above supplied with Oxygen tubing | 50 |
| 032-10-048C | Adult Venturi Mask 31% Orange with Adult Aerosol Mask and Reservoir Tube | 50 |
| 032-10-048CT | As above supplied with Oxygen tubing | 50 |
| 032-10-042C | Adult Venturi Mask 35% Yellow with Adult Aerosol Mask and Reservoir Tube | 50 |
| 032-10-042CT | As above supplied with Oxygen tubing | 50 |
| 032-10-043C | Adult Venturi Mask 40% Red with Adult Aerosol Mask and Reservoir Tube | 50 |
| 032-10-043CT | As above supplied with Oxygen tubing | 50 |
| 032-10-044C | Adult Venturi Mask 60% Green with Adult Aerosol Mask and Reservoir Tube | 50 |
| 032-10-044CT | As above supplied with Oxygen tubing | 50 |

## Paediatric Venturi Masks with Reservoir Tubing

| | | |
|---|---|---|
| 032-10-050C | Paediatric Venturi Mask 24% Blue with Paediatric Aerosol Mask and Reservoir Tube | 50 |
| 032-10-050CT | As above supplied with Oxygen tubing | 50 |
| 032-10-051C | Paediatric Venturi Mask 28% White with Paediatric Aerosol Mask and Reservoir Tube | 50 |
| 032-10-051CT | As above supplied with Oxygen tubing | 50 |
| 032-10-058C | Paediatric Venturi Mask 31% Orange with Paediatric Aerosol Mask and Reservoir Tube | 50 |
| 032-10-058CT | As above supplied with Oxygen tubing | 50 |
| 032-10-052C | Paediatric Venturi Mask 35% Yellow with Paediatric Aerosol Mask and Reservoir Tube | 50 |
| 032-10-052CT | As above supplied with Oxygen tubing | 50 |
| 032-10-053C | Paediatric Venturi Mask 40% Red with Paediatric Aerosol Mask and Reservoir Tube | 50 |
| 032-10-053CT | As above supplied with Oxygen tubing | 50 |
| 032-10-054C | Paediatric Venturi Mask 60% Green with Paediatric Aerosol Mask and Reservoir Tube | 50 |
| 032-10-053CT | As above supplied with Oxygen tubing | 50 |

# Variable Concentration

## Medium Concentration Masks

The Venticaire Medium Concentration Mask is a small capacity variable performance mask. At a flow rate of 6-8 litres/minute the Venticaire MC Mask delivers an oxygen concentration of 40% to 50% depending on the patients breathing rate and tidal volume.

### Easy Fit with Good Seal

The soft, pliable mask moulds easily to the patient's face. The feather rim provides maximum comfort to the patient.

### Clear Observation of Face Colour and Vital Signs

The mask is made of colourless and transparent soft PVC to allow visual inspection.

### Reduces Patients Eye Irritation

The angled $O_2$ Inlet directs oxygen into the nostrils, not upwards towards the eyes.

### Nose Clip

Adult MC masks are also available with a nose clip. The products can be identified by an NC suffix.

### Patient Comfort

The adult mask is offered with head strap or earloops. This will allow easy fitting of the mask to patients whose head movements need to be restricted.

### Eliminate Risk of Patient Injury

The design of the plastic nose bridge eliminates the need for a metal nose bridge, thus eliminating the risk of injury to patients especially children.

### Stepped Oxygen Inlet

Ensures easy and safe connections to oxygen tubing.

### Swivel Connector

The swivel connector provides maximum patient comfort by allowing it to be rotated to the required position.

All masks are supplied with knitted latex free straps. The knitted strap maintains its width when stretched and this will reduce the pressure on patients skin and can protect patients from pressure sores.

## Adult MC Mask with Head Strap

| | | |
|---|---|---|
| 032-10-001 | Adult MC Mask with Head Strap | 50 |
| 032-10-001SM | Small Adult MC Mask with Head Strap | 50 |
| 032-10-002 | Adult MC Mask with Head Strap and Tubing | 50 |
| 034-10-002NC | Adult MC Mask with Head Strap, Tubing and Nose Clip | 50 |

## Adult MC Mask with Earloops

| | | |
|---|---|---|
| 032-10-013 | Adult MC Mask with Earloops | 50 |
| 032-10-014 | Adult MC Mask with Earloops and Tubing | 50 |
| 034-10-014NC | Adult MC Mask with Earloops, Tubing and Nose Clip | 50 |

## Paediatric MC Mask with Head Strap

| | | |
|---|---|---|
| 032-10-008 | Paediatric MC Mask with Head Strap | 50 |
| 032-10-009 | Paediatric MC Mask with Head Strap and Tubing | 50 |

# Variable Concentration

## Nasal Cannula & Nasal Catheter

Nasal Cannulae are used for their simplicity and patient convenience. There is entrainment of ambient air through the nostrils. The FiO2 achieved is proportional to a) the flow rate of oxygen (1-6 l/mni), b) the patients tidal volume, inspiratory flow rate, and c) the volume of the nasa pharynx.

At an oxygen flow rate of 2 l/min the oxygen concentration in the hypopharynx of a resting person is 25% - 30%. Nasal Cannula prevents Rebreathing and are comfortable for long periods.

There is increased patient compliance with nasal cannula as patients are able to speak, eat or drink. Local irritation and dermatitis may occur with high flow rates. Use of humidified oxygen is recommended to reduce dryness of the mucosal wall in the nasal cavities, particularly when using flows of greater than 4 l/min.

## Adult Nasal Cannulas



| | | |
|---|---|---|
| 032-10-020 | Adult Nasal Cannula | 100 |
| 032-10-020FC | Adult Flared Curved Nasal Cannula | 100 |
| 032-10-022 | Adult Nasal Cannula with 2.1m Tubing | 100 |
| 032-10-022FC | Adult Flared Nasal Cannula with 2.1m Tubing | 100 |
| 032-10-107 | Adult Flared Tip Nasal Cannula | 100 |

## Soft Tip Curved Nasal Cannulas



| | | |
|---|---|---|
| 032-10-101 | Adult Soft Tip Curved Nasal Cannula with Tubing | 100 |
| 032-10-102 | Adult Soft Tip Curved Nasal Cannula | 100 |
| 032-10-103 | Paediatric Soft Tip Curved Nasal Cannula with Tubing | 100 |
| 032-10-104 | Paediatric Soft Tip Curved Nasal Cannula | 100 |
| 032-10-105 | Neonatal Soft Tip Curved Nasal Cannula with Tubing | 100 |

## Nasal Cannulas with $CO_2$ Monitoring



| | | |
|---|---|---|
| 032-10-108 | Adult Nasal Cannula with $CO_2$ Monitoring | 25 |
| 032-10-109 | Adult Nasal Cannula with $O_2/CO_2$ Combi Monitoring | 25 |

## Soft Tip Nasal Cannulas



| | | |
|---|---|---|
| 032-10-114 | Adult High Flow Soft Tip Nasal Cannula | 100 |
| 032-10-115 | Infant Soft Tip Nasal Cannula | 100 |
| 032-10-116 | Premature Soft Tip Nasal Cannula | 100 |

# Variable Concentration

## Non Rebreathing Mask

The Non Rebreathing Mask provides a high concentration of oxygen, whilst the reservoir bag allows for adequate oxygen to be available in order to meet unpredictable patients breathing patterns and tidal volumes.

CE 0120
Venticalre
Non - Rebreathing Mask
· Single patient use only · Discard after treatment ·
· Only to be used under the direction of a suitably qualified person ·
032-10-070 Adult Non-Rebreathing Mask w/ Tubing (Earloops)
032-10-071 Adult Non-Rebreathing Mask w/o Tubing (Earloops)
032-10-072 Adult Non-Rebreathing Mask w/ Tubing (Headstrap)
032-10-073 Adult Non-Rebreathing Mask w/o Tubing (Headstrap)
Tel: 44 (0) 1443 474647
Made in the UK
Flexicare Medical Limited
QAN 58/0070

### Reduced Risk of Patient Trauma

The elasticated earloop bands on the adult mask eliminate the need for the patients head to be moved to apply the mask, reducing the risk of further injury to the traumatized patient.

### Latex Free

Eliminates the risk of allergic reaction.

### Ease and Speed of Fitting the Mask

The swivel connector allows the mask to be fitted swiftly with the connector being rotated to suit the patient's position.

### Reduced Risk of Bag Occlusion

The castelation on the swivel connector ensures the flow of oxygen from the bag to the patient is uninterrupted.

### Star Lumen Tubing, Secured Oxygen Delivery

Star Lumen Tubing, supplied with international standard conforming connectors, ensures that the flow of oxygen is maintained even if the tube is kinked.

## Adult Non Rebreathing Mask with Earloops

| | | |
|---|---|---|
| 032-10-070 | Adult Non Rebreathing Mask with Earloops and Tubing | 50 |
| 032-10-071 | Adult Non Rebreathing Mask with Earloops | 50 |
| 032-10-072SM | Small Adult Non Rebreathing Mask | 50 |

## Adult Non Rebreathing Mask with Head Strap

| | | |
|---|---|---|
| 032-10-072 | Adult Non Rebreathing Mask with Head Strap and Tubing | 50 |
| 032-10-072NC | Adult Non Rebreathing Mask with Head Strap, Tubing and Nose Clip | 50 |
| 032-10-073 | Adult Non Rebreathing Mask with Head Strap | |

## Paediatric Non Rebreathing Mask

| | | |
|---|---|---|
| 032-10-080 | Paediatric Non Rebreathing Mask and Tubing | 50 |
| 032-10-081 | Paediatric Non Rebreathing Mask | 50 |

# Post Operative

## Tracheostomy Mask & Humidifier

Tracheostomy masks are provided with a stud button non latex strap with a 360º swivel connector for maximum patient comfort. The 22mm Connector allows for connection to corrugated tubing and providing humidified oxygen when used with a venturi and humidifier adaptor.

Thermotrach is a heat and Moisture Exchanger (HME) for spontaneous breathing patients, for use with a tracheostomy tube.
For further details on this product please see the Breathing Filters section.

| | | |
|---|---|---|
| 032-10-091 | Adult Tracheostomy Mask | 50 |
| 032-10-092 | Paediatric Tracheostomy Mask | 50 |
| 038-41-250 | ThermoTrach Heat and Moisture Exchanger | 50 |

## Gilston T-Piece

The Gilston T-Piece is designed to provide oxygen to patients with tracheostomy tubes. The sliding cover allows easy access for suction and a venturi can be fitted to one end of the tube to provide oxygen at the required concentration or combined with a humidity adaptor for humidification.

| | | |
|---|---|---|
| 5060 | Adult Gilston T-Piece | 5 |
| 5061 | Paediatric Gilston T-Piece | 5 |

## Post Operative Oxygen Therapy T-Pieces

Oxygen T-Pieces are used for delivering oxygen in the recovery room to patients with a laryngeal mask in situ.

The 40% T-Piece is clinically tested for oxygen concentration accuracy giving confidence in providing the precise level of oxygen prescribed. The T-Piece is crystal clear and available with a clear bag allowing for visual observation confirming breathing function. The 40% T-Piece complies to British Standard BS EN 13544-3 assuring compatibility with standard connectors.

| | | |
|---|---|---|
| 032-10-540 | 40% Oxygen T-Piece with Corrugated Tube | 50 |

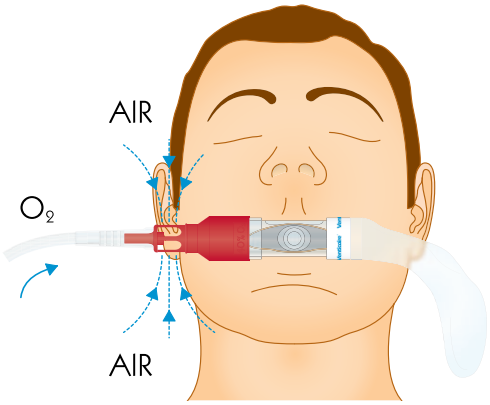
## FCOT - The Complete Solution Post Op FCOT

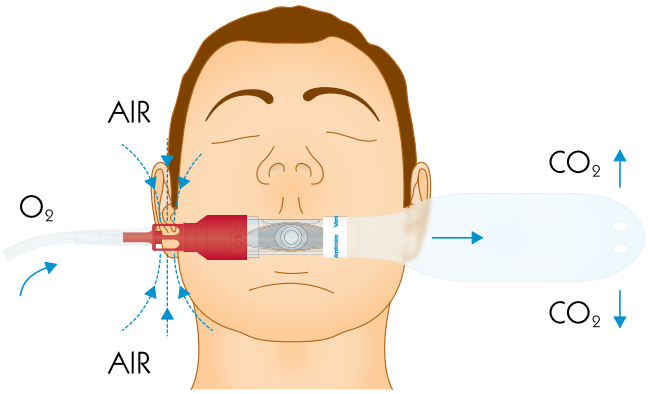
### 40% Fixed Oxygen Delivery

The 40% (red) venturi delivers the fixed concentration irrespective of oxygen flow rate and patient breathing pattern providing the recommended level of oxygen concentration helping in fast post operative wound healing therefore reducing the risk of infection.

### No Rebreathing or Oxygen Dilution

The high flow of oxygen enriched air (40%) flushes the expired gases through the vents on the bag eliminating the risk of rebreathing. During inspiration the bag collapses preventing any dilution



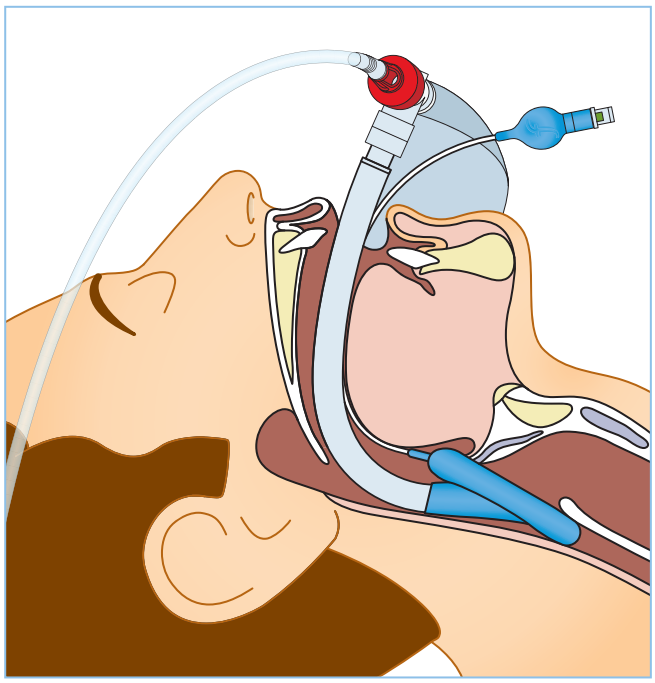



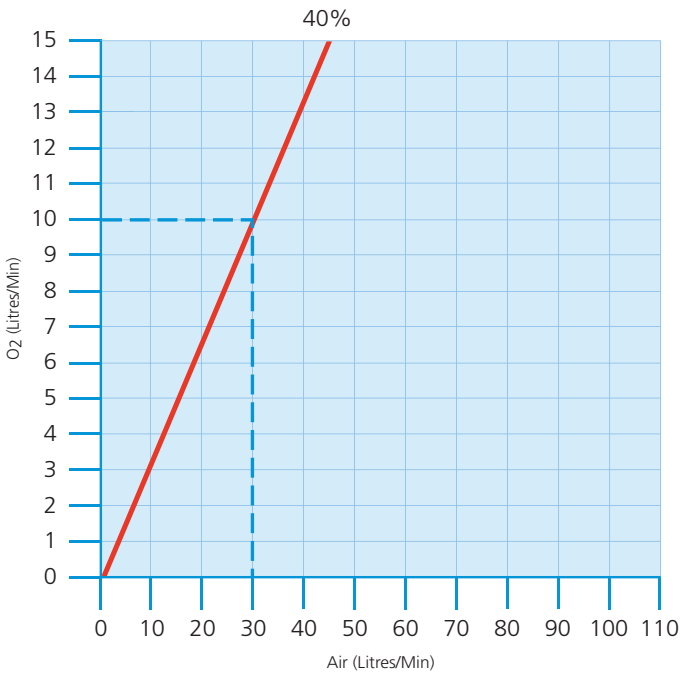

### Visual Observation Of Spontaneous Breathing

The mist formation on the T-piece and bag inflation/deflation provides a visual observation.

### Cost Effective

The complete kit of 40% T-piece bag , Mask and Star Lumen Tubing provides a cost effective solution.





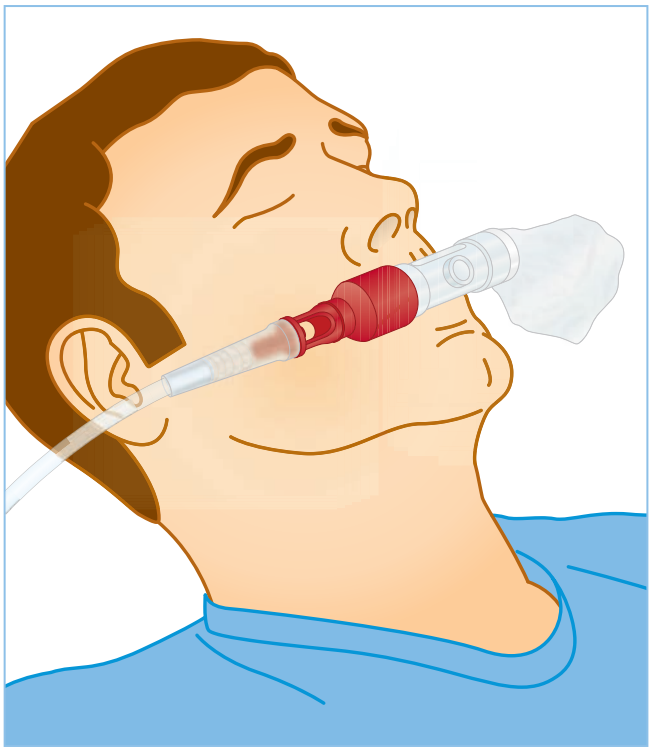

Total Flow rate = 10 litres $O_2$ + 30 litres entrained air = 40lpm at 40% $O_2$

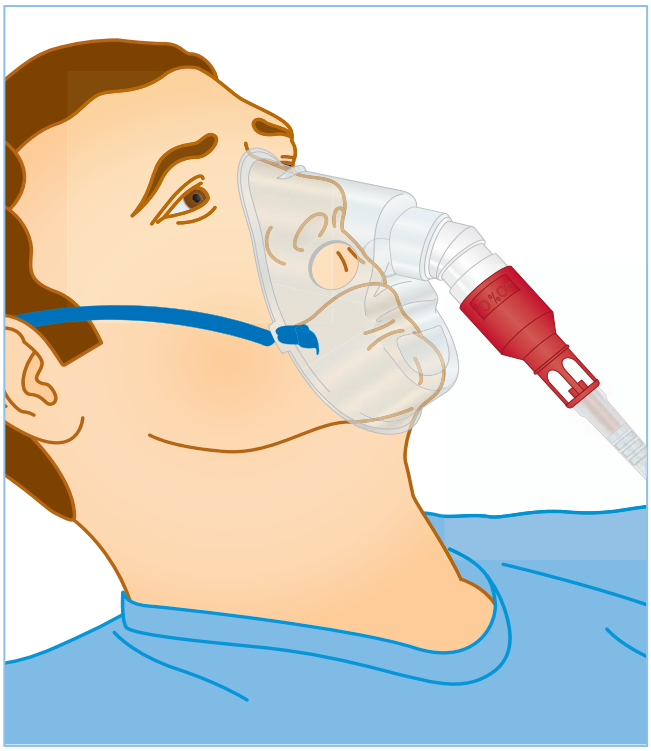
## Recovery Room And Ward

Flexicare's FCOT™ is used with a Laryngeal mask in the recovery room. There after the mask included within the kit can be used for continuation of fixed concentration oxygen therapy.

Controlled oxygen delivery at 40% has been proven to shorten recovery time, enhance wound healing by reducing the risk of infection and reduced patient nausea when administered post operatively. 40% High Air Flow Oxygen Enrichment (HAFOE) fixed concentration oxygen establishes $SaO_2$ and provides a constant oxygen saturation.

Exposure to higher levels of oxygen above 60% for prolonged periods can cause hypoxemia and lead to acidosis due to hypoventilation which occurs in most patients just after general anaesthesia. Hypoxemia has been shown to be deleterious in terms of resistance to infection, wound healing and anastomotic integrity. 40% Oxygen is clinically proven to be the most effective in providing effective oxygen tension within haemoglobin.





FCOT provides a complete solution for post operative controlled oxygen therapy at 40% which can be used with all Laryngeal Masks, for spontaneous breathing adult and paediatric patients.

Oxygen is delivered to the patient at a predetermined 40% through the venturi barrel using a flow rate of 10 Lpm from the supply source and creating an overall flow rate at the patient end of 40 Lpm ensuring that there is no dilution of the prescribed concentration on inspiration.

During the inspiratory phase, the indicator bag deflates preventing dilution as well as providing clearly visible signs of breathing. Upon expiration the gases are flushed through the indicator bag quickly and filled again with 40% oxygen for the next breath.

FCOT is designed to continue with the patient after removal of the supraglottic airway and deliver fixed concentration via an aerosol mask during the remainder of the recovery period ensuring that the concentration is not changed. This is critical for patients who have undergone a major surgery where the recommendation is to continue post-op oxygen therapy for a further 3 days.

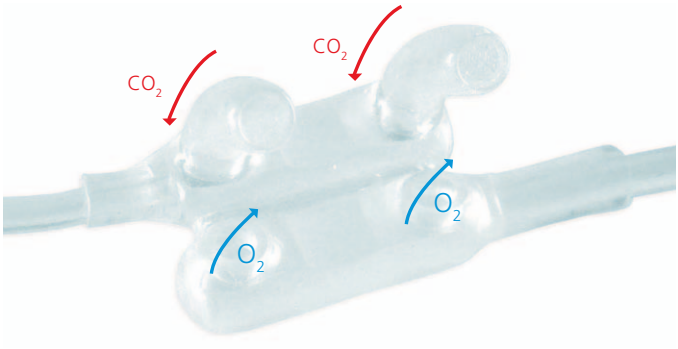
| | | |
|---|---|---|
| 032-10-640 | FCOT T-Piece with Indicator Bag | 50 |
| 032-10-740 | FCOT T-Piece with Indicator Bag, Aerosol Mask and 2.1m Oxygen Tubing | 50 |
| 038-41-740A | FCOT KIT T-Piece with Indicator Bag, Aerosol Mask and 3m Oxygen Tubing | 50 |
| 032-10-741 | FCOT T-Piece with Indicator Bag, Paediatric Aerosol Mask and 2.1m Oxygen Tubing | 50 |

## Capnography and $CO_2$ Monitoring

Monitoring patient's breathing in emergency situations is of paramount importance. Delivering oxygen ensures the level of oxygen saturation in the blood is maintained and this sometimes is monitored and measured by a pulse oximeter.
However, the pulse oximeter does not provide breath by breath patient ventilator status. Capnography is the vital sign of ventilation. By tracking the patient's expired $CO_2$, clinicians can evaluate the ventilation condition of the patient during critical emergency situations, and make the judgment to assess and treat the patient.

## End Tidal $CO_2$ Monitoring & $O_2$ Delivery Cannula

The Dual nasal cannula is designed to provide oxygen to both nostrils and also sample $CO_2$ at the same time. The $CO_2$ sampling is taken from both nostrils and there is no risk of mixing with fresh oxygen as the patient's expiratory flow will divert fresh gas away from the sampling prongs.




$CO_2$ $CO_2$ is sampled from both nostrils for side stream $CO_2$ monitoring through the left side tube.

$O_2$ Fresh oxygen is delivered to both nostrils via the right compartment and tubing of the dual nasal cannula.

## Advantages:

- Excellent sampling accuracy as there are two end tidal $CO_2$ sampling ports
- Superior waveforms as Dual has two end tidal $C0_2$ sampling ports
- Reliable sampling under the following conditions:
  - Clogged Sinus' in one nostril
  - Deviated septum
  - Polyps
- Oxygen delivered in both nostrils at lower rate, thus minimizing mucosal wall damage
- Secure luer lock connection for both Male & Female connections
- Soft tip cannula provides superior patient comfort and nare positioning
- Non-kinking tube ensures consistent and accurate delivery
- Universal Oxygen connector is standard on all items

| | | |
|---|---|---|
| 032-10-123 | Dual Nasal Cannula, Male Pigtail Luer (7ft) | 25 |
| 032-10-124 | Dual Nasal Cannula, Female Pigtail Luer (7ft) | 25 |
| 038-10-125 | Dual Nasal Cannula, Male Luer (7ft) | 25 |
| 032-10-126 | Dual Nasal Cannula, Female Luer (7ft) | 25 |
| 032-10-127 | Dual Nasal Cannula, Male Luer (10ft) | 25 |
| 032-10-128 | Dual Nasal Cannula, Female Luer (10ft) | 25 |
| 032-12-125 | Dual Nasal Cannula Paediatric, Male Luer (7ft) | 25 |
| 032-12-126 | Dual Nasal Cannula Paediatric, Female Luer (7ft) | 25 |
| 032-13-125 | Dual Nasal Cannula Neonate, Male Luer (7ft) | 25 |
| 032-13-126 | Dual Nasal Cannula Neonate, Female Luer (7ft) | 25 |

# Dual

## Capnography provides the following vital information:

- Hypo ventilation
- Hyperventilation
- Confirming, maintaining and assisting intubation
- Return of spontaneous circulation (ROSC)
- Measuring cardiac output during cardiopulmonary resuscitation (CPR)
- End tidal $CO_2$ as predictor of resuscitation outcome
- Monitoring sedated patients
- Ventilating head injury patients
- Perfusion warning sign
- ETCO2 in asthma, chronic obstructive pulmonary diseases (COPD), and congestive heart failure (CHF)

## Capnography Mask

The Dual Oxygen Mask provides continual monitoring of carbon dioxide being exhaled from the mouth and nose whilst administering oxygen to the patient. The integrated oxygen and sampling line provides quick and simple operation.

Swivel connector

Nose clip

### Easy Fit with Good Seal

The soft, pliable mask moulds easily to the patient's face, whilst the feather rim provides maximum comfort to the patient.

### Star Lumen Tubing, Secured Oxygen Delivery

Star Lumen Tubing, supplied with international standard conforming connectors, ensures that the flow of oxygen is maintained even if the tube is kinked.

### Clear Observation of Face Colour and Vital Signs

The mask is made of colourless and transparent soft PVC to allow visual inspection.

### Ease and Speed of Use

The swivel sampling and oxygen connector allows the mask to be fitted swiftly, the connector can be rotated to suit the patient's position.

### Nose Clip

Adult Dual masks are also available with a nose clip.

| | |
|---|---|
| 032-10-130 | Adult Dual Mask (Oxygen delivery with CO2 monitoring) |
| 032-10-132 | Adult Dual Mask (with filter (Oxygen delivery with CO2 monitoring) |
| 032-10-134 | Adult Nose clip Dual Mask (Oxygen delivery with CO2 monitoring) |
| 032-10-136 | Adult Nose Clip Dual Mask (with filter (Oxygen delivery with CO2 monitoring) |
| 032-10-138 | Medium Adult Dual Mask (Oxygen delivery with CO2 monitoring) |
| 038-10-140 | Medium Adult Dual Mask with filter (Oxygen delivery with CO2 monitoring) |
| 032-10-0142 | Paediatric Dual Mask (Oxygen delivery with CO2 monitoring) |
| 032-10-0144 | Paediatric Dual Mask with filter (Oxygen delivery with CO2 monitoring) |

## MaxiNeb Nebuliser

MaxiNeb is a high output nebuliser which delivers medication quickly and efficiently. In comparing the performance of nebulisers for Dead Volume, Nebulising Time, MMAD and percentage of aerosol mass in the respirable range, MaxiNeb performed among the most efficient in each of these categories.

MaxiNeb®

### Patient Choice

22mm connector allows MaxiNeb to be connected to either an aerosol mask or mouth piece providing users choice of delivery.

### Easy Dilution

The chamber has clearly visible graduation marks to facilitate easy dilution of drugs as necessary.

### Stable Stand Design

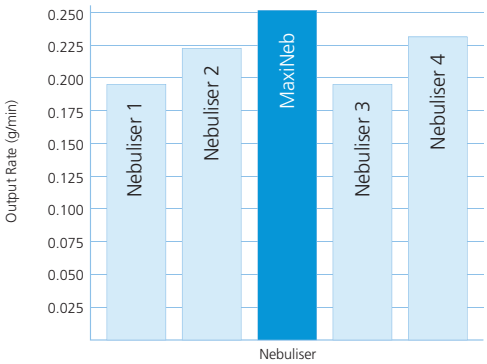
The wide legs of the MaxiNeb provides a stable upright position.

### Anti-Spill Cap

The easy 1/4 turn closing design of the cap provides confidence in a secure seal whilst also incorporating a large 10ml reservoir to reduce the risk of spillage.

### Clear Construction

Alllows clinicians to view the nebulisation of the drug and provides visual assurance of the functioning device.




The above chart shows that MaxiNeb produces the highest output rate in comparison to other nebulisers. MaxiNeb's has a fast nebulisation time of 9 minutes compared to an average 12 minutes.

### Specifications

- Low Dead Volume (1.1ml)
- Nebulisation time of 8-10 minutes
- Anti-Spill cap design with large capacity (10ml)
- Efficient nebulising in upright position and at angles up to 45°.
- Leak Proof and Secure Seal, 1/4 turn closing design.
- Large volume medication chamber capacity of 15ml, allows for high dilution rate.
- Graduation marking on the chamber, assisting drug dilution when required.

## MaxiNeb Nebuliser

| | | |
|---|---|---|
| 032-10-003 | MaxiNeb Nebuliser | 50 |
| 032-10-004 | MaxiNeb Nebuliser with T-Piece and Mouthpiece | 50 |
| 032-10-005 | MaxiNeb Nebuliser with T-Piece, Mouthpiece and Tubing | 50 |
| 032-10-007 | Adult Aerosol Mask, MaxiNeb and Tubing | 50 |
| 032-10-007NC | Adult Aerosol Mask, Nose Clip, MaxiNeb and Tubing | 50 |
| 032-10-011 | Paediatric Aerosol Mask, MaxiNeb and Tubing | 50 |

## MaxiNeb 90 Nebuliser

| | | |
|---|---|---|
| 032-10-015 | Maxineb 90 Nebuliser | 50 |
| 032-10-016 | Adult Aerosol Mask, Maxineb 90 Nebuliser and Tubing | 50 |
| 032-10-017 | Paediatric Aerosol Mask, Maxineb 90 Nebuliser and Tubing | 50 |

## MaxiNeb Accessories

| | | |
|---|---|---|
| 032-10-064 | 22mm Mouthpiece | 100 |
| 010-636 | T-Piece | 100 |
| 032-10-065 | 22mm Mouth Piece and T-Piece | 100 |
| 032-10-120 | In-line valve for use with MaxiNeb Nebuliser | 100 |

## MaxiNeb Compressor

The Maxineb Compressor has been developed to provide a complete system in both hospital and home for the delivery of different medications.

### Clear Instructions

In addition to the User Manual, the operational information is visible through the clear case construction for quick reference.

### Changeable Air Filter

MaxiNeb has an interchangeable filter easily changed by the user.

### Quiet Operation

The modern design of the housing facilitates a low noise level output, minimising the ambient noise and reducing irritation to the user.

### Integrated Compartment

The Maxineb compressor has a dedicated compartment to safely store the nebuliser and accessories, ensuring that all the necessary items are at hand when required.

## Operational Benefits

The MaxiNeb Compressor is very quiet when in use and produces 6 lpm, providing optimal output to the nebuliser to deliver the drug. When used in conjunction with MaxiNeb Nebuliser, systemic reaction to beta stimulators is reduced by the absence of large particles which are deposited in the mouth, pharyngeal and gastrict tract. Each MaxiNeb Compressor is supplied with all the essential items comprising of: MaxiNeb Compressor, MaxiNeb Nebuliser, Aerosol Mask, Mouthpiece, Star Lumen Tubing and Instructional Manual.

## MaxiNeb Compressor

| | | |
|---|---|---|
| 60022GB | MaxiNeb Compressor - British Plug (9R619001) | 1 |
| 60022EU | MaxiNeb Compressor - European Plug | 1 |
| 60022IN | MaxiNeb Compressor - Indian Plug | 1 |
| 60022CH | MaxiNeb Compressor - Chinese/Australian Plug | 1 |
| 60001 | Replacement Filter for all Compressor Variations | 5 |

## MaxiNeb Compact

The Maxineb Compressor has been developed to provide a complete system in both hospital and home for the delivery of different medications.

### One Piece 'Uni Enclosure' Sealed Design

No compartments or openings therefore cutting down on size.

### Positive On and Off Switch

The rocker design of the switch allows patients with less dexterity to easily operate the compressor.

### Portability

Integrated handle allows maxineb compact to be transported with ease.

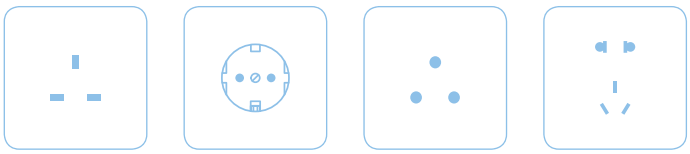
### Replaceable Filter

Side located air filter can be changed as required.

### Sleek Finish Casing

Easy to clean polished finish with minimal crevices to harbour bacteria.

Available for the following countries/formats:




Specifications:

| | |
|---|---|
| Electrical Requirements | 220v 50Hz |
| Power Consumption | 0.6A Under Normal Load |
| Compressor Power Range | 35~45 psi |
| Flow Range | 5~7 LPM |
| Particle Size | 0.5µm to 5µm |

## MaxiNeb Compact

| | | |
|---|---|---|
| 60122GB | MaxiNeb Compact Compressor - British Plug (9R619001) | 1 |
| 60122EU | MaxiNeb Compact Compressor - European Plug (9R619002) | 1 |
| 60122IN | MaxiNeb Compact Compressor - Indian Plug | 1 |
| 60122CH | MaxiNeb Compact Compressor - Chinese/Australian Plug | 1 |

## Tubing, Connectors & Water Traps

Flexicare provides  wide range of oxygen tubing, corrugated tubing, water traps, T-Pieces and accessories to provide maximum flexibility for clinicians to customise devices that meet the specific patient needs.

Flexicare provide a wide choice of oxygen connecting tubes to suit all applications.

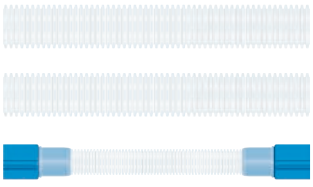
### Star Lumen Tubing

| | | |
|---|---|---|
| 032-10-060 | Star Lumen Oxygen Tubing with connectors 2.1m | 100 |
| 032-10-063 | Star Lumen Oxygen Tubing with one narrow and one wide connector - 2.1m | 100 |
| 032-10-059 | Star Lumen Oxygen Tubing - 100m | 1 |

### Oxygen Bubble Tubing

| | | |
|---|---|---|
| 032-10-069 | Oxygen Bubble Tubing - 1.8m | 100 |
| 032-10-067 | Oxygen Bubble Tubing (3mm) 30m coil in dispensing box | 1 |
| 032-10-068 | Oxygen Bubble Tubing (3mm) 200m coil in dispensing box | 1 |

### Corrugated Tubing



| | | |
|---|---|---|
| 038-01-226 | 22mm Corrugated Tubing with 45cm repeat, 50m coil in dispensing box | 1 |
| 038-01-228 | 22mm Corrugated Tubing with 15cm repeat, 50m coil in dispensing box | 1 |
| 038-01-230 | 22mm Corrugated Tubing 2m with two 22mm female connectors | 20 |

### Water Traps

| | | |
|---|---|---|
| 010-650 | Adult Self Sealing Water Trap | 10 |
| 020-650 | Paediatric Self Sealing Water Trap | 10 |

### Tubing Connections

| | | |
|---|---|---|
| 032-10-117 | Oxygen Tubing T Connector | 25 |
| 032-10-118 | Oxygen Tubing Right Angled Connector | 25 |
| 032-10-119 | Oxygen Tubing Straight Connector | 25 |
| 032-10-110 | Oxygen Tubing Swivel Connector | 25 |
| 032-10-111 | Oxygen Tubing Swivel Connector with Clip | 25 |

## Humidity Adaptor

Normally, enough moisture is present in ambient air entrained into a venturi barrel to provide sufficient humidification. Patients however, with thick mucous secretions in the airway, undergoing controlled oxygen therapy may require additional humidification.

To provide this a humidity adaptor has to be attached to the venturi barrel, with the open end away from the mask and connected to either a large volume nebuliser or humidifier. When oxygen is delivered at a flow rate of 1-4 l/min by mask, nasal cannula or nasal catheters, the oropharynx or nasopharynx provide adequate humidification. At a higher flow rate or when oxygen is delivered directly to the trachea, humidification is necessary.

Ultimately it might be necessary to increase the moisture content of the inspired gases in order to prevent the possible detrimental effect of dry gases on the airway structure. The humidity adaptor fixes over a venturi barrel as normal.

The adaptor has a 22mm arm which is connected to a humidifier via 22mm corrugated (elephant) tubing. Humidified air is transported from the bubble humidifier or heated humidifier to the humidity adaptor, then it is mixed with fixed concentration oxygen. This is the most accurate method of giving Fixed Concentration Humidified Oxygen to the patient.

| | | |
|---|---|---|
| 5506 | Humidity Adaptor 22mm | 10 |

## Bubble Humidifier

Oxygen is a dry gas, when it is delivered in excess of 4 l/min or when using a Nasal Cannula it is recommended that oxygen is humidified to prevent damaging the respiratory tract. Bubble humidifiers are used to provide humidified oxygen (cold humidification) to patients both in hospital and at home.

### Safety Pressure Valve

The pressure valve automatically opens at 6psi / 4psi should the outlet line occlude.

### PVC Nipple Diffuser

For home use the PVC nipple diffuser extends the life of the humidifier and eliminates the clogging of the diffuser apertures.

### Recessed Connector with Screw Cap

Protecting the connector from accidental breakage.

### Increased Humidification

The fine diffuser at the end of the inlet tube produces very small bubbles of gas, thus increasing contact surface providing maximum humidity picked up by the bubbles. At the same time the tiny bubbles produce very low noise unlike larger bubbles, helping the patient rest.

| | | |
|---|---|---|
| 032-10-090 | Bubble Humidifier with PVC Diffuser - 30ml, 6psi (recommended for home use) | 20 |
| 032-10-089 | Bubble Humidifier with Fine Diffuser - 400ml, 4psi (recommended for hospital) | 20 |

# SUCTION

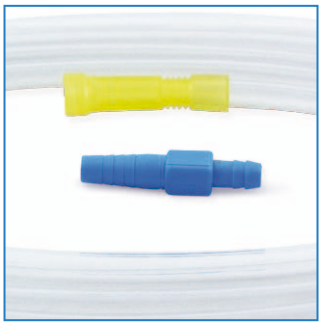
## Sterile Suction Tubing, Suction Catheters and Suction Yankauers

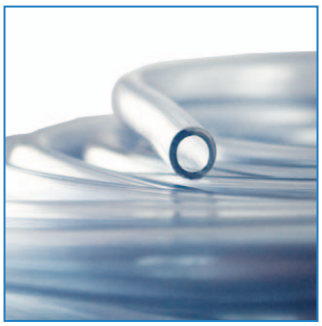
Flexicare range of Sterile Suction Tubing is made of PVC. Peel Pouch Sterile Packaging for easy opening and placing in sterile areas. Positive Ribbed Connectors provide secure connection with spare Male/Male connector also included.


Sterile Suction Tubing 114

Suction Catheters 115

Suction Yankauer 116



# Sterile Suction Tubing

## Suction Tubing

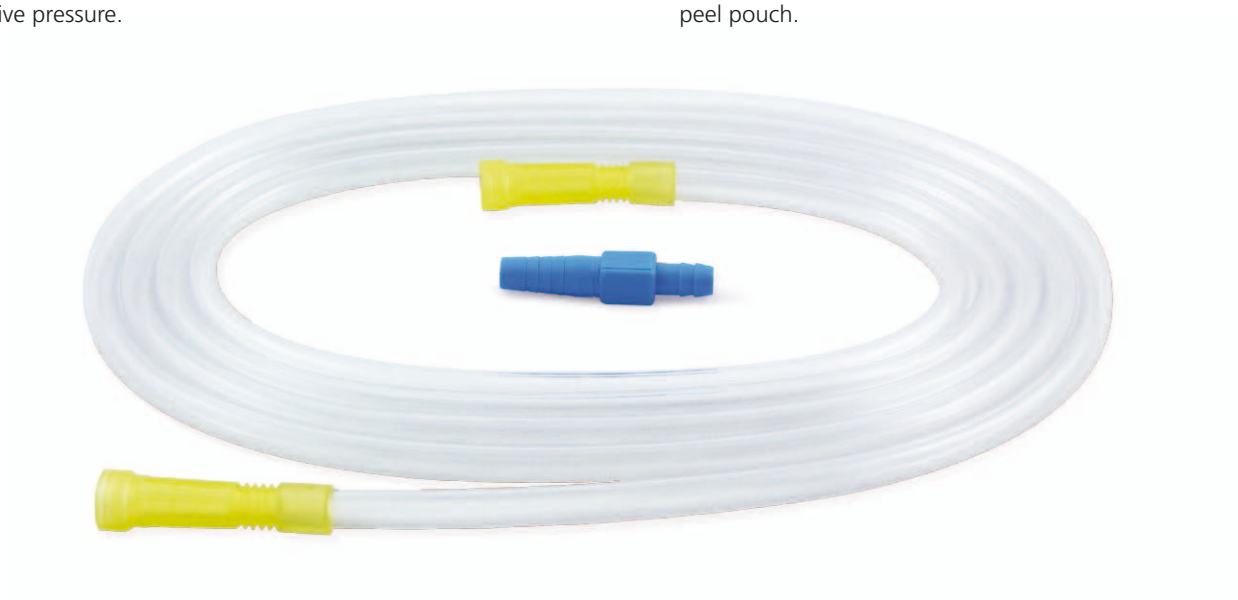
Flexicare offer a wide range of Suction Tubing, with ID's from 5mm to 7mm and lengths from 2m through to 30m rolls.

### Clear Non-Coiling PVC

The wall thickness prevents the tube from collapsing when the tube is used under high negative pressure.

### Peel Pouch Sterile Packing

All sterile suction connecting tubes are supplied double wrapped, with a non-stick inner bag and outer easy to open peel pouch.



### Universal Female Connector

The rib design elastomeric connectors provide secure connection to adaptors and catheters. Connectors are colour coded for ID size.
Yellow = 7mm  Green = 6mm  Blue = 5mm

### Spare Male - Male Connector

All sterile suction connecting tubes are supplied with one spare Male-Male connector for connection to Female connectors in suction catheters or for connecting two tubes should extended length be required.

### Suction Bubble Tube

The suction bubble tube is available in 5mm and 7mm ID with 3.5m bubble repeat. The product is supplied in a 100m coil dispensing box.

| | | |
|---|---|---|
| 1020-25 | 7mm ID Suction Tube Sterile, 2m with F/F Connector | 25 |
| 1020-6 | 6mm ID Suction Tube Sterile, 2m with F/F Connector | 25 |
| 1024-25 | 7mm ID Suction Tube Sterile, 2.4m with F/F Connector | 25 |
| 1027-25 | 7mm ID Suction Tube Sterile, 2.7m with F/F Connector | 25 |
| 1030-25 | 7mm ID Suction Tube Sterile, 3m with F/F Connector | 25 |
| 1030-5 | 5mm ID Suction Tube Sterile, 3m with F/F Connector | 25 |
| 1030-6 | 6mm ID Suction Tube Sterile, 3m with F/F Connector | 25 |
| 1035-25 | 7mm ID Suction Tube Sterile, 3.5m with F/F Connector | 25 |
| 1037-25 | 7mm ID Suction Tube Sterile, 3.7m with F/F Connector | 25 |
| 10830-5 | Suction Tube 30m coil, 5mm ID with bubble non conductive | 1 |
| 10830-7 | Suction Tube 30m coil, 7mm ID with bubble non conductive | 1 |

## Suction Catheters

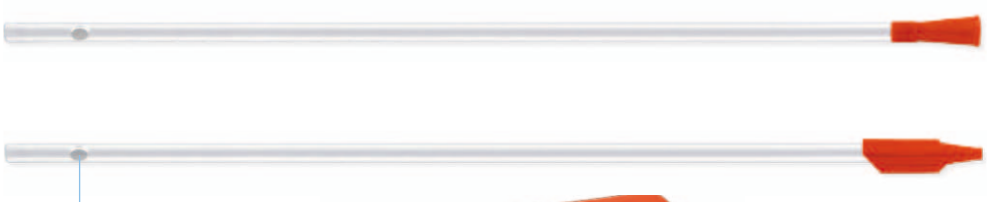
Our range of Suction Catheters includes Standard and Vacuum Controlled. The range is essentially designed for Oral, Tracheal and Endobroncial suction implementation, and will connect to the suction source via Flexicare's Suction Tubing.

### Smooth Tip

The Tip at the patient end of the suction catheter is rounded to reduce risk of injury.

### Smooth Main Tube

The smooth surface of the suction Catheter facilitates easy insertion through all types of plastic, rubber and metal oral and nasal tracheal tubes, tracheostomy tubes, and appropriate connectors.



### Double sided Eyes

The edges and orifice of the side eyes are smooth and free from sharp edges.

### Vacuum Control

Allows for controlled vacuum suctioning.

### Clear Tube

Allows clinicians to visualise suctioning of patient.

## Specifications

| Designated Size | | Outside Diameter Tolerance (mm) | Minimum Inside Diameter (mm) | Colour Identification |
|---|---|---|---|---|
| French (Charriere) Equivalent (F) | Normal Outside Diameter (mm) | | | |
| 6 | 2.00 | ±0.10 | 1.00 | Light Green |
| 8 | 2.67 | ±0.10 | 1.75 | Light Blue |
| 10 | 3.33 | ±0.15 | 2.00 | Black |
| 12 | 4.00 | ±0.15 | 2.45 | White |
| 14 | 4.67 | ±0.20 | 2.95 | Dark Green |
| 16 | 5.33 | ±0.20 | 3.40 | Orange |
| 18 | 6.00 | ±0.20 | 3.90 | Red |

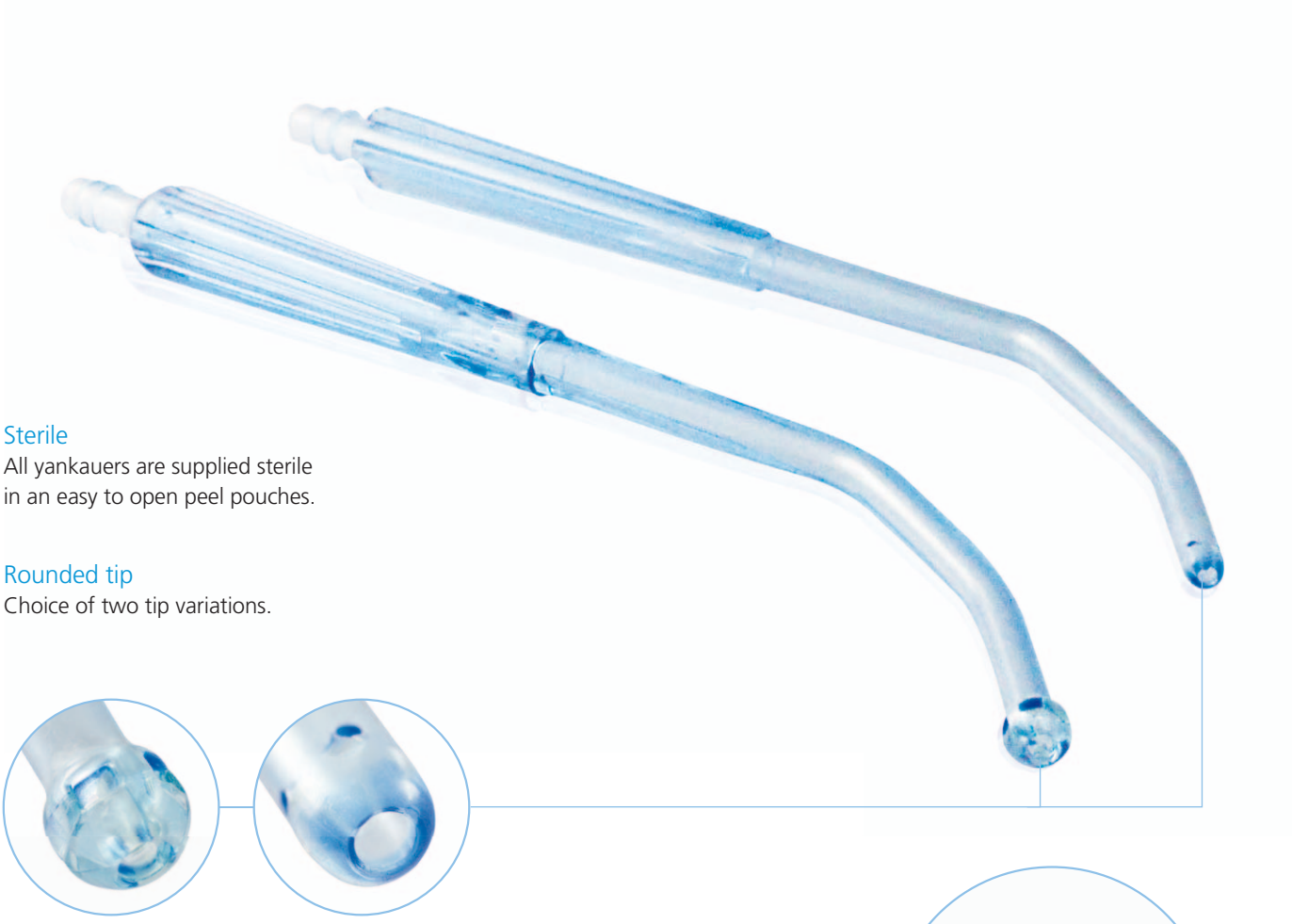
| | | | |
|---|---|---|---|
| 050-10-06 | Suction Catheter without Vacuum, 6fr, 2.00mm | | 100 |
| 050-10-08 | Suction Catheter without Vacuum, 8fr, 2.66mm | | 100 |
| 050-10-10 | Suction Catheter without Vacuum, 10fr, 3.33mm | | 100 |
| 050-10-12 | Suction Catheter without Vacuum, 12fr, 4.00mm | | 100 |
| 050-10-14 | Suction Catheter without Vacuum, 14fr, 4.66mm | | 100 |
| 050-10-16 | Suction Catheter without Vacuum, 16fr, 5.33mm | | 100 |
| 050-10-18 | Suction Catheter without Vacuum, 18fr, 6.00mm | | 100 |
| 050-20-06 | Suction Catheter with Side Vacuum Control, 6fr, 2.00mm | | 100 |
| 050-20-08 | Suction Catheter with Side Vacuum Control, 8fr, 2.66mm | | 100 |
| 050-20-10 | Suction Catheter with Side Vacuum Control, 10fr, 3.33mm | | 100 |
| 050-20-12 | Suction Catheter with Side Vacuum Control, 12fr, 4.00mm | | 100 |
| 050-20-14 | Suction Catheter with Side Vacuum Control, 14fr, 4.66mm | | 100 |
| 050-20-16 | Suction Catheter with Side Vacuum Control, 16fr, 5.33mm | | 100 |
| 050-20-18 | Suction Catheter with Side Vacuum Control, 18fr, 6.00mm | | 100 |

# Suction Yankauer

Designed to effectively suction without aspiration of the surrounding tissue, Flexicare have designed a range of suction yankauers with and without suction control providing clinicians with a choice to compliment the full range of suction products available. The Flexicare range of yankauers are made of transparent material with a smooth inner lumen facilitating easy suction and movement through the complete product.

## Visual Indication

The transparent construction of the yankauers allows constant monitoring of suction throughout the system.
The smooth inner lumen ensures the level of suction is maintained.



## Sterile

All yankauers are supplied sterile in an easy to open peel pouches.

## Rounded tip

Choice of two tip variations.

## Continuous Suction

The lateral eyes positioned near the tip allows it to withstand negative pressure while ensuring continuous and easy suction.

## Available with Vacuum finger tip control

The port provided at the distal end of the yankauer handle allows finger tip / thumb management to allow the user further control.

| | | |
|---|---|---|
| 050-35-001 | Suction Yankauer with Straight Tip and Vacuum Control | 25 |
| 050-35-002 | Suction Yankauer with Straight Tip | 25 |
| 050-35-003 | Suction Yankauer with Rosebud Tip and Vacuum Control | 25 |
| 050-35-004 | Suction Yankauer with Rosebud Tip | 25 |
| 050-35-010 | Suction Yankauer with Straight Tip and Vacuum Control | 25 |
| 050-35-011 | Suction Yankauer with Straight Tip | |

# RESUSCITATION

## Single Patient Resuscitation Bags, Reusable Silicone Resuscitation Bags and Pocket Resuscitation Masks

Single Patient Use and Reusable Resuscitators for Adults, Paediatrics and Neonatals


Single Patient Resuscitation Bags ____ 119

Reusable Silicone Resuscitation Bags ____ 120

Pocket Resuscitation Masks ____ 121

# Resuscitation Bags

## Advanced Airway Management

Advanced, effective airway management will ventilate the patient's lungs providing the highest possible oxygen concentration levels – aiming for 100%. Bag-Valve-Masks are frequently utilised for effective airway management as an alternative to tracheal intubation. Flexicare offer a full range of single patient use and reusable resuscitator bags in three sizes of Adult, Paediatric & Neonatal. All products are supplied complete with mask, reservoir bag and star lumen oxygen tube ready to use in a sealed polyethylene bag with easy tear-off opening. This will save valuable time in emergencies and critical situations.

## Oropharyngeal Airways (Guedel)

These may be used as an adjunct to Bag-Valve-Masks on unconscious patient's in order to depress the tongue and establish and maintain the patency of the upper airway. Flexicare offer a full range of Oropharyngeal Airways in sizes 000 through to Adult Size 4.

## Product Specifications for Flexicare Resuscitation Bags:

| | Adult | Paediatric | Neonatal |
|---|---|---|---|
| Dead Space (Mask and Valve) | 168ml | 113ml | 46ml |
| Pressure Relief Valve | 60 ± 10cm $H_20$ | 40 ± 5 cm $H_2O$ | 40 ± 5 cm $H_2O$ |
| Resuscitator Bag volume | 1500ml | 550ml | 280ml |
| Oxygen Reservoir Bag Volume | 2500ml | 2500ml | 600ml |
| Stroke Volume | 800ml (1 hand) 1350ml (2 hands) | 350ml | 100ml |
| Maximum Breath per Minute (BPM) | 45 BPM | 105 BPM | 98 BPM |
| Mask Size | 5 | 3 | 1 |
| Oxygen Tube | 3.0m Star Lumen Tubing | 3.0m Star Lumen Tubing | 3.0m Star Lumen Tubing |

### Reduced Risk of Patient Rebreathing

The integrated duck bill design of the non-return valve prevents patients exhaled gases to enter the resuscitator bag, providing one way flow of fresh gas from the bag to the patient.

### Eliminate Lung Over Inflation

The Pressure Relief Valve supplied with all bags opens at 60cm $H_2O$ for adults. The paediatric and neonatal valve opens at 40±5 cm of $H_2O$. The pressure relief valve can be locked when increased pressure is required. The adult size is also available without a pressure relief valve.

### User Mobility

An integrated Double Swivel Connector allows the Resuscitator bag to be rotated fully through 360° without the need to stop bagging the patient and providing the most convenient position for the resuscitator.

### Positive Grip

The outer textured surface of the Resuscitator Bags provides a positive grip during resuscitation. The design of the bags allow for ease of manual ventilation with least resistance and minimal hand fatigue.

### Supplementary Oxygen

The bags can be connected to an oxygen source to deliver supplemental oxygen. Oxygen concentration is dependant on flow rate, frequency and tidal volume delivered to the patient.

### Space Saving Design

The Adult Resuscitator is supplied fully assembled in a collapsible space saving format, which is easily and quickly extendible for patient use.

# Single Patient Resuscitation Bags

## Resuscitators - Single Use

Our Single Use Resuscitator Bags are designed for manual ventilation of patients. The ready to use pack allows for speed and efficiency during the early critical stages of CPR.

### Adult Single Use Resuscitator Bag

| | | |
|---|---|---|
| 038-71-840 | Adult Single Patient Use Resuscitator Bag with Mask, Oxygen Line and Reservoir Bag | 5 |
| 038-71-841 | Adult Single Patient Use Resuscitator Bag with Mask, Oxygen Line and Reservoir Bag (without pressure relief valve) | 5 |

### Paediatric & Neonatal Single Use Resuscitator Bag

| | | |
|---|---|---|
| 038-72-840 | Paediatric Single Patient Use Resuscitator Bag with Mask, Oxygen Line and Reservoir Bag | 5 |
| 038-73-840 | Neonatal Single Patient Use Resuscitator Bag with Mask, Oxygen Line and Reservoir Bag | 5 |

### Resuscitator Pack

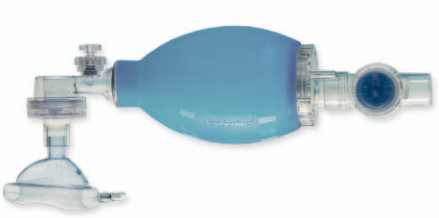
| | | |
|---|---|---|
| 038-71-845 | Resuscitation Pack - Adult, Paediatric and Neonatal Single Patient Use Resuscitator Bag with Masks, Oxygen Lines and Reservoir Bags | 5 |

# Reusable Silicone Resuscitation Bags

## Adult Silicone Resuscitator Bag

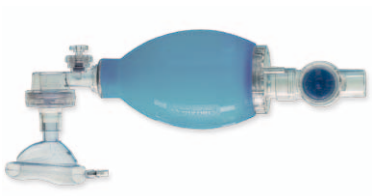
| | | |
|---|---|---|
| 038-71-850 | Adult Silicone Resuscitator Bag with Mask, Oxygen Line and Reservoir Bag | 5 |
| 038-71-851 | Adult Silicone Resuscitator Bag with Mask, Oxygen Line and Reservoir Bag (without pressure relief valve) | 5 |

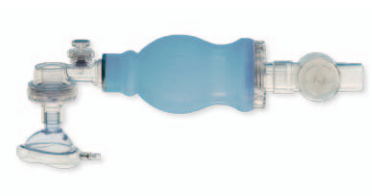
## Paediatric & Neonatal Silicone Resuscitator Bag



| | | |
|---|---|---|
| 038-72-850 | Paediatric Silicone Resuscitator Bag with Mask, Oxygen Line and Reservoir Bag | 5 |
| 038-73-850 | Neonatal Silicone Resuscitator Bag with Mask, Oxygen Line and Reservoir Bag | 5 |

## Resuscitator Pack





| | | |
|---|---|---|
| 038-71-855 | Resuscitation Pack - Adult, Paediatric and Neonatal Silicone Reusable Resuscitator Bag with Masks, Oxygen Lines and Reservoir Bags | 5 |
| 038-71-857 | Reservoir Bag and Oxygen Line for Adult and Paediatric Silicone Resuscitators | 5 |
| 038-73-857 | Reservoir Bag and Oxygen Line for Neonatal Silicone Resuscitators | 5 |

## Single Patient Use Packaging

## Optional Reusable Packaging

# Pocket Resuscitation Mask

Protect Patients against Cross Contamination with the Flexicare Single Patient Use Resuscitator Mask.

### Secure Durable Carrying Case

Mask carefully protected until required - easy open release catch with printed easy-to-follow instructions.

### Non-return Valve

This prevents reflux contamination whilst allowing gas escape through side vents.

### Integrated Bacterial/Viral Filter

Protects both patient and resuscitator.

### Pre-filled Cushion

The pre-filled cushion provides maximum seal.

### Latex Free Strap

Assists in maintaining mask in secure position & eliminates risk of Latex reaction.

### Built in Oxygen Line Port with Cap

Allows connection of oxygen if required - no need to change mask during transportation.

| | | |
|---|---|---|
| 010-999 | Pocket Resuscitation Fivrst Aid Mask | 20 |

## Custom Emergency Packs

Flexicare

# CONTINENCE CARE

## FlexiCath, Drainage Bags and Urology Accessories

Flexicare has a full range of Night Drainage Bags, Legs Bags, Catheters and accessories to meet all patients requirements.

### Catheters

FlexiCath All Silicone Foley Catheter 124

### Drainage Bags

Flexicare Leg Bags 126
Discreet Leg Bags 127
Non-Drainable 2L Bags 128
Drainable 2L Bags 129
F2-EZ Once Drainable 2L Bag 130
F2-EZB Once Drainable 2L Bag 131
Urimeter 132
Post Operative Bag 133

### Accessories

FlexiHang Bag Hanger 134
EZ-Flow Catheter Valve 134
Bag Stand 135
FlexiSleeve Leg Bag Holder/Sleeve 135
Leg Straps 135

Home Packs 136

# FlexiCath Foley Catheter

FlexiCath is a 100% silicone 2-way biocompatible indwelling foley catheter designed to eliminate the risk of allergic reactions and provide maximum long-term patient comfort.

FlexiCath

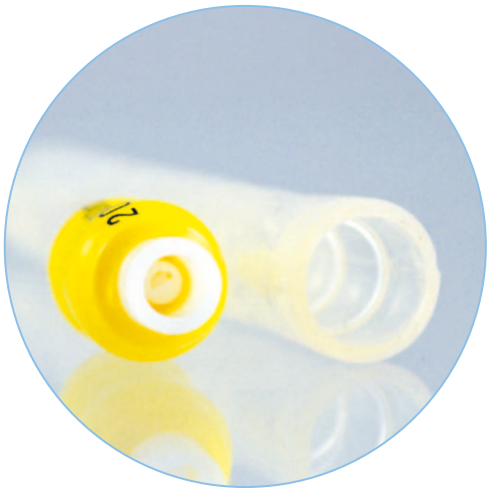
### Smooth Rounded Tip
Allows for easy insertion and provides maximum patient compliance.

### Large Twin Catheter Eyes
The smooth moulded drainage eyes reduce the risk of snagging, ensuring easier insertion when in place. The large eyes allow quick fluid drainage and reduce risk of blockages.

### Large Inner Lumen
FlexiCath has a large inner lumen with a round, smooth surface reducing the risk of bacterial colonization and encrustation, allowing quick drainage of fluids and any possible clots.

### Radiopaque Line
The integral blue line running the length of the catheter is radiopaque, allowing clinicians to see the position of the catheter under x-ray.

### Smooth Valve Surface
The valve sleeve provides a smooth surface against the patient's skin reducing the risk of irritation.



### Spherical Retention Balloon
The ribbed design of the balloon gives perfect symmetry providing a good position and seal when in situ. The silicone balloon has the ability to contract back to its unfilled streamline shape providing easier removal even after 30 days of use.

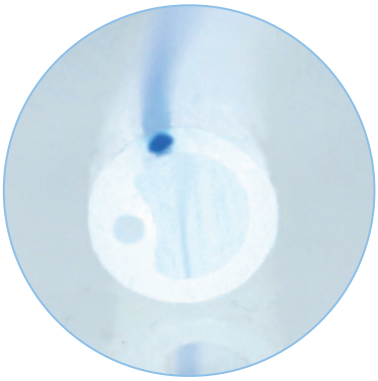
### Flexible Shaft
Designed to provide optimum stiffness for easy insertion whilst maintaining true flexibility, giving users freedom of movement without discomfort.

### 100% Silicone
FlexiCath is made of 100% silicone which minimizes bacterial colonization and encrustation whilst in situ, facilitating easier removal.

### Ribbed Outlet Connector
Provides a secure attachment to a catheter valve or leg bag, minimizing the risk of slippage, disconnection or leakage. Clearly marked with sizing information.

### Recessed Inflation Valve
Prevents accidental emptying of the catheter balloon.

# FlexiCath Foley Catheter



Large inner lumen

Atraumatic tip & large eyes

Ribbed outlet connector

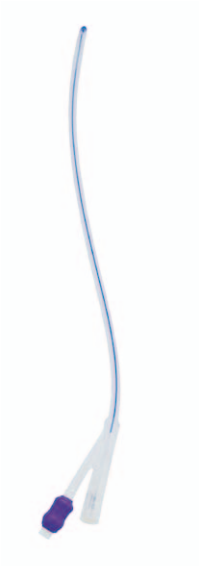
## Paediatric Catheters

| | | | | |
|---|---|---|---|---|
| 00-410603 | | 6 Ch/Fr | 3-5ml | 10 |
| 00-410803 | | 8 Ch/Fr | 3-5ml | 10 |
| 00-411003 | | 10 Ch/Fr | 3-5ml | 10 |

## Female Catheters

| | | | | |
|---|---|---|---|---|
| 00-421205 | | 12 Ch/Fr | 10ml | 10 |
| 00-421405 | | 14 Ch/Fr | 10ml | 10 |
| 00-421605 | | 16 Ch/Fr | 10ml | 10 |

## Male Catheters



| | | | | |
|---|---|---|---|---|
| 00-411205 | | 12 Ch/Fr | 10ml | 10 |
| 00-411405 | | 14 Ch/Fr | 10ml | 10 |
| 00-411605 | | 16 Ch/Fr | 10ml | 10 |
| 00-411630 | | 16 Ch/Fr | 30ml | 10 |
| 00-411805 | | 18 Ch/Fr | 10ml | 10 |
| 00-411830 | | 18 Ch/Fr | 30ml | 10 |
| 00-412005 | | 20 Ch/Fr | 10ml | 10 |
| 00-412030 | | 20 Ch/Fr | 30ml | 10 |
| 00-412205 | | 22 Ch/Fr | 10ml | 10 |
| 00-412230 | | 22 Ch/Fr | 30ml | 10 |
| 00-412405 | | 24 Ch/Fr | 10ml | 10 |
| 00-412430 | | 24 Ch/Fr | 30ml | 10 |
| 00-412605 | | 26 Ch/Fr | 10ml | 10 |
| 00-412630 | | 26 Ch/Fr | 30ml | 10 |

# Leg Bags - Flexicare Range

Flexicare leg bags are available in 350ml, 500ml and 750ml capacities, meeting patient requirements. All three leg bag capacities are available in short or long tube lengths and for those requiring extra length, Flexicare offer an extra-long adjustable length tube.

### Easy to Operate Leak-Free Taps
The lever taps fitted to Flexicare bags are 100% leak tested and are easy to operate.

### Needle-Free Sample Port
The needle-free sample port eliminates the risk of needle stick injury, whilst ensuring the bag is leak-free.

### Skin-Friendly Fabric Backing
All of our community leg bags have a durable, non-woven fabric backing to reduce skin irritation and perspiration.

### Secure and Comfortable Fit
Anti-slip, latex-free Lycra Velcro straps provide secure, comfortable support and help maintain the inlet tube and non-return valve in position, preventing kinking of the tube or folding of the NRV.

### Universal Secure Overnight Connection
All outlet taps on Flexicare leg bags are fitted with a silicone overnight bag connection to attach securely and reliably to a bedside night drainage bag.

### Range of Tube Lengths
The table below shows the different tube lengths available.

| Tube Description | Short Tube | Long Tube | Extra Long Adjustable Tube |
|---|---|---|---|
| Tube Length | 7cm / 2 ¾ inches | 30cm / 11¾ inches | 60cm / 23 ¾ inches |

## Flexicare Leg Bags - Community packs with fabric backing

| | | |
|---|---|---|
| 00-1352 | 350ml Leg Bag Short Tube - sterile | 10 |
| 00-2352 | 350ml Leg Bag Long Tube - sterile | 10 |
| 00-1502 | 500ml Leg Bag Short Tube - sterile | 10 |
| 00-2502 | 500ml Leg Bag Long Tube - sterile | 10 |
| 00-3502 | 500ml Leg Bag Extra Long Adjustable Tube - sterile | 10 |
| 00-3501 | 500ml Leg Bag Extra Long Adjustable Tube - non-sterile | 10 |
| 00-1752 | 750ml Leg Bag Short Tube - sterile | 10 |
| 00-2752 | 750ml Leg Bag Long Tube - sterile | 10 |

## Flexicare Leg Bags - Hospital packs without fabric backing

| | | |
|---|---|---|
| 00-1503L | 500ml Leg Bag Short Tube - sterile | 100 |
| 00-2503L | 500ml Leg Bag Long Tube - sterile | 100 |

Flexicare offer a discreet range of leg bags which are contoured to fit the anatomy better, have a neutral colour and text that is harder to see through clothing. This allows the user to wear a wider range of clothes without compromising on lifestyle choices.

# Discreet

### Neutral Colour
Using neutral colours for the backing and print on the leg bags allows users to wear the bag with more confidence by reducing the possibility of printed text or bright colour backing showing through clothing.

### Contoured Fit
The Discreet range of leg bags are designed to fit better and mould to either the calf or thigh, distributing the weight and volume of the urine evenly to minimise visibility of a leg bag in-situ.

### Easy to Operate Leak Free Taps
The lever taps fitted to Flexicare bags are 100% leak tested and are easy to operate.

### Needle-Free Sample Port
The needle-free sample port eliminates the risk of needle stick injury, whilst ensuring the bag is leak free.

The Discreet range of leg bags are available in 350ml, 500ml and 750ml capacity with short or long tube and for those requiring extra flexibility, Flexicare offers an adjustable length tube in the 500ml capacity.

### Range of Tube Lengths
The table below shows the different tube lengths available.

| Tube Description | Short Tube | Long Tube | Extra Long Adjustable Tube |
|---|---|---|---|
| Tube Length | 7cm / 2 ¾ inches | 30cm / 11¾ inches | 60cm / 23 ¾ inches |

## Discreet Leg Bags - Community packs with fabric backing

| | | |
|---|---|---|
| 00-5352 | 350ml Discreet Leg Bag Short Tube - sterile | 10 |
| 00-6352 | 350ml Discreet Leg Bag Long Tube - sterile | 10 |
| 00-5502 | 500ml Discreet Leg Bag Short Tube - sterile | 10 |
| 00-6502 | 500ml Discreet Leg Bag Long Tube - sterile | 10 |
| 00-6504 | 500ml Discreet Leg Bag Extra Long Adjustable Tube - sterile | 10 |
| 00-6505 | 500ml Discreet Leg Bag Extra Long Adjustable Tube - non-sterile | 10 |
| 00-5752 | 750ml Discreet Leg Bag Short Tube - sterile | 10 |
| 00-6752 | 750ml Leg Bag Long Tube - sterile | 10 |

## Discreet Leg Bags - Hospital packs without fabric backing

| | | |
|---|---|---|
| 00-5503 | 500ml Discreet Leg Bag Short Tube - sterile | 100 |
| 00-6503 | 500ml Discreet Leg Bag Long Tube - sterile | 100 |

# Non-Drainable 2L Bags

Flexicare non drainable 2L bags provide a clean and safe method of urine drainage for both hospital and home environments. The Flexicare F2 bag is a high quality collection bag that is simple and easy to use, assuring confidence to clinicians and comfort for patients.

## Easy to use

The Flexicare F2 bag has a simple and easy-to-use tear mark which can be used to open and drain the bag when needed. After use, the bag can be disposed of with household waste making the F2 an ideal bag for use in the community.

## Safe and secure drainage

All Flexicare urine drainage bags are fitted with a non-return valve (NRV) as standard. Flexicare NRVs are designed to allow low pressure drainage in one direction while preventing all flow in the opposite direction. This balance is critical to make sure that there is a free flow of urine into the bag while protecting the patient against ascending infection.

## Secure connection to catheter or leg bag

The stepped connector is easily inserted into any catheter or sheath and provides a secure connection that will withstand the most vigorous user activity.

## Overnight Drainage Bags - Community Packs

| | | |
|---|---|---|
| 00-2202c | F2 Community Pack - non-sterile bag, non-drainable with non-return valve and tear to open | 10 |

## Overnight Drainage Bags - Hospital Packs

| | | |
|---|---|---|
| 00-2201 | F2 Non-Sterile Hospital Pack - non-sterile bag, non-drainable, non-return valve and tear to open | 250 |
| 00-2202 | F2 Sterile Hospital Pack - sterile bag, non-drainable, non-return valve and tear to open | 100 |

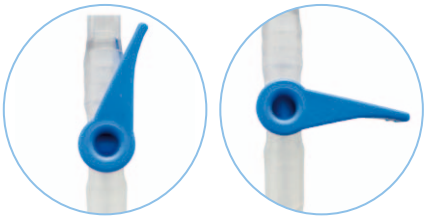
# Drainable 2L Bags

Flexicare drainable urine bags provide a robust and versatile urine drainage solution for both hospital and community environments. All Flexicare drainable 2L bags are fitted with a non-return valve as standard to prevent urine reflux and protect the patient against ascending infection.

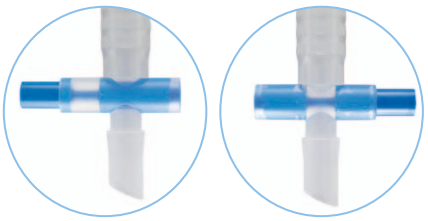
## f4 & f4L

### Easy to Operate Leak-Free Taps

Both the lever tap and T-tap fitted to Flexicare F4 bags are 100% leak tested and are easy to operate. The lever tap requires a lower force to open and close the tap and this design is often preferred by the elderly or patients with impaired dexterity.



F4L



F4

### Free and Rapid Flow

The wide bore drainage tube allows unimpaired flow of urine into the bag, optimising drainage and providing observation of urine flow. The tube is both firm and flexible affording comfort to the user.

### Needle-Free Sample Port

The needle-free sample port eliminates the risk of needle stick injury, whilst ensuring the bag is leak free.

## Overnight Drainage Bags - Community Packs

| | | |
|---|---|---|
| 00-1200 | F4 Community Pack - 2L drainable sterile bag with inlet connector, needle-free sampling port and T-tap | 10 |
| 00-1201 | F4L Community Pack - 2L drainable sterile bag with inlet connector, needle-free sampling port and lever tap | 10 |

## Overnight Drainage Bags - Hospital Packs

| | | |
|---|---|---|
| 00-1204 | F4 Hospital Pack - 2L drainable sterile bag with inlet connector, needle-free sampling port and T-tap | 100 |
| 00-1204L | F4 Hospital Pack - 2L drainable sterile bag with inlet connector, needle-free sampling port and lever tap | 100 |
| 00-2206 | F3 Non Sterile Hospital Pack - non-sterile bag with non-return valve and T-tap | 100 |

# Once Drainable 2L Bags

F2-EZ is an innovative 2L drainage bag designed to be opened quickly and easily while maintaining controlled drainage of fluids. The twist-snap tap is located at the top of the bag thus eliminating the possibility of splash, spray and cross contamination associated with tear bags. The bag is designed for single use and, once the twist-snap tap has been broken and the bag emptied, it can be easily disposed of.

f2-EZ

| | | |
|---|---|---|
| 00-2203C | F2-EZ Community Pack - non-sterile bag, once-drainable with non-return valve and twist-snap tap | 10 |
| 00-2203 | F2-EZ Hospital Pack- non-sterile bag, once-drainable with non-return valve and twist-snap tap | 100 |

# Once Drainable 2L Bags

F2-EZB features the same specification as F2-EZ but with the twist-snap tap at the bottom of the bag. The bag is designed for single use and, once the twist-snap tap has been broken and the bag emptied, it can be easily disposed of.

## f2-EZB

### Non-Return Valve
Eliminates reflux and maintains directional flow of fluids.

### Bag Stand
F2-EZB is pictured with the Flexicare Bag Stand. For more information see page 139.

### Stepped Connector
Provides a secure connection to all bags and catheters.

### F2-EZB Twist-Snap Tap
Innovative easy-to-open connector with wide bore for rapid drainage.

### Twist-Snap Tap
Held in the upright position the twist-snap tip is twisted to break the seal.

### Easily Drainable
After discarding the tip, the fluid can be easily drained via the outlet.

| | | |
|---|---|---|
| 00-2208C | F2-EZB Community Pack - non-sterile bag, once-drainable with non-return valve and bottom-located twist-snap tap | 10 |
| 00-2208 | F2-EZB Hospital Pack- non-sterile bag, once-drainable with non-return valve and bottom-located twist-snap tap | 100 |

# Urimeter

Urine meters are primarily used with post operative patients or those critically ill, where precise monitoring of urine output is necessary. Flexicare have developed a sterile closed collection Urimeter with an integral measuring chamber directly above the in-line collection bag.

## Star Lumen Tubing

The star lumen tubing ensures unimpeded flow of urine even if the tube becomes kinked.

## Secure Fastening

The integral hangers and straps ensure the Flexicare Urimeter is securely attached to any bed frame.

## Vertical Drainage

Vertical drainage ensures complete emptying of the measuring chamber

## Safe and Secure Drainage

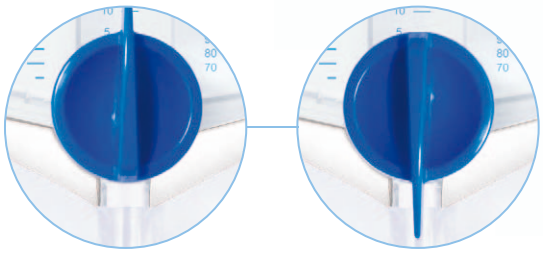
The unique design and manufacture of our non-return valves (NRV) allows low pressure drainage without compromising its anti-reflux property.

## Hydrophobic Filters

The hydrophobic filter allows for the air and any gas build up in the bag to escape without allowing proteins or fluids to pass through.

## Enclosed Tap Protector

The lever tap can be housed in the blue tap holder when not in use to prevent the tap touching the floor or being accidentally opened.



## Easy Emptying

The 180° release tap enables the clinician to empty the measuring chamber quickly and without the need to invert the chamber, reducing the risk of contamination.

Urine flows uninterrupted into the main measuring chamber. This chamber is divided into 3 sections with the central chamber measured in clearly defined 5ml increments allowing for accurate measurements up to 65ml. Once full, urine then flows into the second and third chambers which are measured in 10ml increments with a total capacity of 500ml. Overflow urine drains into the collection bag.

The urine can be evacuated from the measuring chamber into the collection bag via an easy to open rotating tap. This in-line system minimizes the risk of contamination and ensures complete emptying of the measuring chamber should further monitoring be necessary.

| | | |
|---|---|---|
| 00-1225 | Flexicare Urimeter with 100cm Tubing | 20 |
| 00-1227 | Flexicare Urimeter with 150cm Tubing | 20 |

# Post Operative Bag

Primarily used with patients who have undergone an operation and are fitted with a urinary catheter. The Flexicare Post Operative Bag is designed for patients with a weakened immune system who require a sterile drainage bag with maximum protection against the risk of ascending infection.

## Integral Bag Hanger

The integral bag hanger can fit securely to any bed or stand. The inlet tube is also maintained in its primary position to allow for direct flow into the drip chamber.

## Drip Chamber

The drip chamber is fitted with a non-return valve and prevents contact between the urine inside the bag and the tube, which eliminates the risk of ascending infection.

## Hydrophobic Filter

The hydrophobic filter allows for any air or gas build up in the bag to escape without allowing proteins or fluids to pass through. The function of the hydrophobic filter also assists in proper filling of the bag without pressure build up.

## Non-Return Valve

The bag is fitted with a second NRV preventing the contents of the bag returning to the drip chamber, eliminating reflux and provides directional flow of fluids.

## Enclosed Tap Protector

The lever tap can be placed in a protective tap holder which keeps the outlet from possible cross contamination from the floor whilst also protecting against accidental opening.

The bag is connected to the catheter via a needle free sample port connector which provides a secure fit to any foley catheter. The wide bore tubing allows for quick and easy urine drainage, while remaining flexible and kink resistant.

| | | |
|---|---|---|
| 00-1208 | 2L Post Operative Bag - Sterile | 20 |
| 00-1209 | 4L Irrigation Bag - Sterile | 20 |

# FlexiHang

The FlexiHang bag hanger is a uniquely designed universal 2 litre urine bag hanger for use on beds fitted with or without side bars. FlexiHang can also be secured between the mattress and bed frame on a divan bed. The ridges incorporated into the hook section of the hanger will provide a positive grip keeping the hanger and bag in position. FlexiHang holds the urine bag firmly in place with two snap-fit locks and secures the outlet tube in a vertical position to ensure good flow to the bag.

| | | |
|---|---|---|
| 00-0012 | FlexiHang Bag Hanger | 10 |
| 00-0014 | FlexiHang Bag Hanger | 100 |

# EZ-Flow

The Flexicare EZ-Flow is a discreet lightweight catheter valve designed to offer patients flexibility of choice in urine drainage management.

100% tested - All EZ-Flow catheter valves are 100% tested to guarantee leak-free valves.

Patient Comfort - The outlet sleeve of the catheter valve is made of soft PVC that will not cause pressure marks or discomfort for the patient.

Secure Fitting - the ridged connector ensures a secure fit with the catheter.

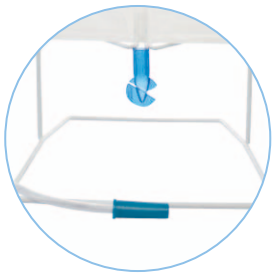
| | | |
|---|---|---|
| 00-0060 | EZ Flow Catheter Valve | 5 |

# Accessories

## Bag Stand

The Flexicare Bag Stand is tough, durable and designed to hold any 2L bag. The metal stand is plastic coated making it easy to clean and ensuring that there are no sharp edges.

Easy Clean Coating



Stable Base

| | | |
|---|---|---|
| 00-0022 | Bedside Bag Stand | 50 |

## flexiSleeve

FlexiSleeve is a knitted leg bag holder to replace leg straps. FlexiSleeve offers more comfort to the bag wearer by distributing the weight of the bag evenly around the leg or thigh. This helps to reduce the risk of pressure sores occurring and FlexiSleeve also helps to dampen the noise of the fluid in the bag.

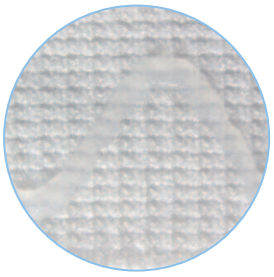
Increased Comfort

Knitted Weave

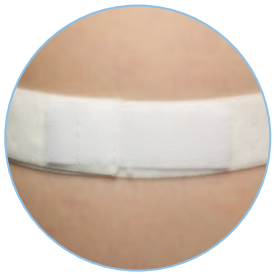
| | | |
|---|---|---|
| 00-0035 | Small size leg bag holder | 3 |
| 00-0036 | Medium size leg bag holder | 3 |
| 00-0037 | Large size leg bag holder | 3 |
| 00-0038 | Extra-large size leg bag holder | 3 |

## Leg Straps

Flexicare leg straps are made of Lycra which keeps its elasticity over the strap's lifetime. The leg straps feature an anti-slip silicone wave which grips the leg and ensures a secure and comfortable fit.



Anti-Slip Silicone Wave



Secure Fastening

| | | |
|---|---|---|
| 00-0032C | Lycra anti-slip leg straps | 10 |
| 00-0032 | Lycra anti-slip leg straps | 100 |

# Home Packs

Flexicare offers home packs to patients leaving hospital and returning home. Several different home packs are available to suit different patient requirements, ensuring that patients have all the items they need during their first week away from hospital.

All home packs include a user booklet, written by a Continence Advisor, designed specifically for patients to ensure they use the products correctly as well as emphasising the importance of hygiene. The booklet also answers the most frequently asked questions, thus helping the patient in adapting to using continence products.

## Accessories

Along with a selection of urine bags, Flexicare home packs also contain the following accessories:

1 x Pair of anti-slip latex-free lycra velcro leg straps

1 x FlexiHang 2 litre bag hanger

1 x User booklet

1 x Prescription card, with details of all products available and prescription order numbers

"Providing ongoing care in the community"

## Non Drainable Night Bag Home Packs

| | | |
|---|---|---|
| 00-0042 | 4 x F2 and 1 x 500ml short tube leg bag - continence care home pack | 1 |
| 00-0047 | 2 x F2S and 1 x 500ml short tube leg bag - continence care home pack | 1 |
| 00-0048 | 2 x F2S and 1 x 500ml long tube leg bag - continence care home pack | 1 |

## Drainable Night Bag Home Packs

| | | |
|---|---|---|
| 00-0040 | 1 x F4, 1 x F2 and 1 x 500ml short tube leg bag - continence care home pack | 1 |
| 00-0045 | 2 x F4L and 1 x 500ml short tube leg bag - continence care home pack | 1 |
| 00-0046 | 2 x F4L and 1 x 500ml long tube leg bag - continence care home pack | 1 |

# COLOSTOMY

## Coloset Clear, Coloset Beige and Flanges

Coloset is a range of one piece and two piece colostomy bags and accessories


Coloset Features 138

### Coloset Two Piece Range

Flanges 139

Bag with Comfort Net Backing 139

Bag with Non Woven Backing 139

### Coloset One Piece Range

One Piece Bag with Comfort Net Backing 140

One Piece Bag with Non Woven Backing 140

## Coloset

Coloset is a range of lightweight stoma bags designed to be comfortable and discreet while also being simple and easy to use. The one piece Coloset bag has a self-adhesive flange incorporated in a complete disposable solution. The Coloset two piece colostomy bag has a lock in system with three easy-grip tabs making bag changes easy at any angle.

Both one piece and two piece systems are available in 5 customisable sizes from 32mm to 70mm to meet your individual needs. Both systems are available with a choice of fabric or comfort net backing, and with the options of a clear or opaque outer surface. Please note: all Coloset products are latex-free.

### Comfort net backing

Flexicare's comfort net backing wipes clean and dries quickly. Lightweight and breathable, comfort net is gentle on the skin and moves with your body to prevent chafing and irritation.

### Skin-friendly fabric backing

Coloset's non-woven fabric backing is skin-friendly to reduce perspiration and skin irritation. The material is strong and durable.

### Integrated filter

The internal filter allows air to flow in or out of the bag while absorbing all odours efficiently giving you peace of mind for the lifetime of the appliance.

### Stimulating healing and maintaining skin health

The hydrocolloid properties of the flange stimulate healing in the peristomal skin to help repair any existing skin damage and maintain a healthy skin condition.

### Secure and comfortable bond

Coloset flanges contain a hydrocolloid adhesive which ensures a safe and secure fit without causing irritation to the skin. The soft and flexible material conforms to the shape of your body.

### Stoma Measuring guide

Simple and effortless sizing with the pre-cut measuring guide allows for accurate fitting to suit individual patients' stoma needs.

# Colostomy - Two Piece Range

## Flanges

Flanges are available in various sizes to provide patient the correct choice in choosing the right fitting size ostomy flange.

| | | | |
|---|---|---|---|
| 00-920-032 | 32mm | Ostomy Flange | 5 |
| 00-920-038 | 38mm | Ostomy Flange | 5 |
| 00-920-045 | 45mm | Ostomy Flange | 5 |
| 00-920-057 | 57mm | Ostomy Flange | 5 |
| 00-920-070 | 70mm | Ostomy Flange | 5 |
| 00-920-075 | 75mm | Ostomy Flange | 5 |

## Coloset Comfort Netting

The Coloset Comfort Netting Range is available with a choice of either clear or beige film.

| | | | | |
|---|---|---|---|---|
| 00-921-132 | 32mm | 2 piece Bag with comfort netting, clear film | | 30 |
| 00-922-132 | 32mm | 2 piece Bag with comfort netting, beige film | | 30 |
| 00-921-138 | 38mm | 2 piece Bag with comfort netting, clear film | | 30 |
| 00-922-138 | 38mm | 2 piece Bag with comfort netting, beige film | | 30 |
| 00-921-145 | 45mm | 2 piece Bag with comfort netting, clear film | | 30 |
| 00-922-145 | 45mm | 2 piece Bag with comfort netting, beige film | | 30 |
| 00-921-157 | 57mm | 2 piece Bag with comfort netting, clear film | | 30 |
| 00-922-157 | 57mm | 2 piece Bag with comfort netting, beige film | | 30 |
| 00-921-170 | 70mm | 2 piece Bag with comfort netting, clear film | | 30 |
| 00-922-170 | 70mm | 2 piece Bag with comfort netting, beige film | | 30 |
| 00-921-175 | 75mm | 2 piece Bag with comfort netting, clear film | | 30 |
| 00-922-175 | 75mm | 2 piece Bag with comfort netting, beige film | | 30 |

## Coloset Non Woven

The Coloset Non Woven Range is available with a choice of either Clear or Beige.

| | | | | |
|---|---|---|---|---|
| 00-921-232 | 32mm | 2 piece Bag with non woven backing, clear film | | 30 |
| 00-922-232 | 32mm | 2 piece Bag with non woven backing, beige film | | 30 |
| 00-921-238 | 38mm | 2 piece Bag with non woven backing, clear film | | 30 |
| 00-922-238 | 38mm | 2 piece Bag with non woven backing, beige film | | 30 |
| 00-921-245 | 45mm | 2 piece Bag with non woven backing, clear film | | 30 |
| 00-922-245 | 45mm | 2 piece Bag with non woven backing, beige film | | 30 |
| 00-921-257 | 57mm | 2 piece Bag with non woven backing, clear film | | 30 |
| 00-922-257 | 57mm | 2 piece Bag with non woven backing, beige film | | 30 |
| 00-921-270 | 70mm | 2 piece Bag with non woven backing, clear film | | 30 |
| 00-922-270 | 70mm | 2 piece Bag with non woven backing, beige film | | 30 |
| 00-921-275 | 75mm | 2 piece Bag with non woven backing, clear film | | 30 |
| 00-922-275 | 75mm | 2 piece Bag with non woven backing, beige film | | 30 |

## Closed Bag with comfort netting

The Coloset one piece with comfort netting

| | | |
|---|---|---|
| 00-911-110 | 1 piece Bag with comfort netting, clear film and filter | 30 |
| 00-912-110 | 1 piece Bag with comfort netting, beige film and filter | 30 |

## Closed Bag with non woven backing

The Coloset one piece with non woven backing

| | | |
|---|---|---|
| 00-911-210 | 1 piece Bag with non woven backing, clear film and filter | 30 |
| 00-912-210 | 1 piece Bag with non woven backing, beige film and filter | 30 |

# ENEMA TIPS

## Coloset Clear, Coloset Beige and Flanges

Coloset is a range of one piece and two piece colostomy bags and accessories


### Introduction

Barium Enema ____ 142

### Enema Tips

Standard Enema Tips ____ 142

Cuffed Enema Tips ____ 142

### Enema Bags

Epiflex Enema Bag ____ 142

### Accessories ____ 142

# Introduction to Enema

Epiflex is our range of barium enema tips, bags and accessories providing clinicians with maximum choice. Flexicare offer a wide range of enema tips with a choice of cuffed or uncuffed depending on the procedure required.

## Smooth Tip

The rounded edge of the tip and soft material reduces the risk of injury to the patient.

## Universal Connection

Stepped connector design allows fitting to most enema bags and provides a secure fit.

## Enema Bag

The Epiflex barium mixing bag with it's large snap fit cap, makes it easy to fill. The floating ball fitted in the outlet tube prevents barium lumps entering the tube before it is mixed. The outlet tube is fitted with a slide clamp to allow easy opening and closing.

## The Tips are offered with and without cuff.

## Standard Enema Tips

| | | |
|---|---|---|
| 01-Q09 | Standard Enema Tip With Air Line and Non-Return Valve | 10 |
| 01-Q08 | Standard Enema Tip | 10 |
| 01-Q07 | Extra Large Enema Tip With Air Line and Non-Return Valve | 10 |

## Cuffed Enema Tips

| | | |
|---|---|---|
| 01-Q11 | Cuffed Enema Tip With Air Line and Non-Return Valve | 10 |
| 01-Q06 | Cuffed Enema Tip | 10 |

## Enema Bag

| | | |
|---|---|---|
| 01-Q12 | Enema Bag | 10 |

## Enema Accessories

| | | |
|---|---|---|
| 01-Q15 | Single Shot Cuff Indicator | 10 |
| 01-Q14 | Blue Air Puffer | 10 |

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